CrossTalk

August 2026 *Serving Amateur Radio & Our Community For 67 Years* *Issue 67 : 08*

2026 Club Officers

President :	Jonathan Pearce WB2MNF
Vice President :	Ronald Block NR2B
Treasurer :	John O'Connell K2QA
Recording Secretary :	John Zaruba Jr K2ZA
Corresponding Secretary :	Michael Resnick N2WOQ

Trustees - 4 Year Term

Sheldon Parker K2MEN	(2023-2026)
Len Rust W2LJR	(2024-2027)
Earl Moore KC2NCH	(2025-2028)
Greg Ciraula K3GC	(2026-2029)

Directors - 3 Year Term

Al Arrison KB2AYU	(2024-2026)	Frank Romeo N3PUU	(2025-2027)
Bill Price NJ2S	(2024-2026)	Chris Prioli AD2CS	(2026-2028)
Jeffrey Garth WB2ZBN	(2025-2027)	James Wright N2GXJ	(2026-2028)

Revolutionary War POTA Special Event
Saturday, August 01, 2026
Hancock House
Hancock's Bridge, NJ

General Membership Meeting
Wednesday, August 05, 2026 @ 1900 Hours
In-Person & ZOOM : 982 4039 1944, 091084

Tech Saturday Forum
Saturday, August 08, 2026 @ 0900 Hours
W2MMD Clubhouse

License Testing Session
Thursday, August 13, 2026 @ 1900 Hours
W2MMD Clubhouse

Board of Directors Meeting
Wednesday, August 19, 2026 @ 1900 Hours
W2MMD Clubhouse

Dinner @ The W2MMD Clubhouse
Wednesday, August 26, 2026 @ 1800 Hours

Tuesday AfterNoon 2M Net @ 1200 Hours

Thursday Night 2M Net @ 2000 Hours

Monday & Thursday Night 40M Net @ 1930 Hours
7.172 MHz (+/- 10 kHz)

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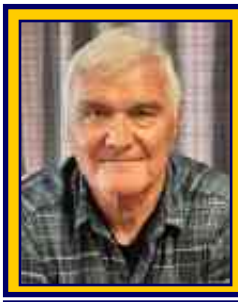


President's Letter
Jon Pearce WB2MNF

August 2026

After the whirlwind of Field Day in June followed by the July 4 holiday GCARC activities continued actively into July. **Chris Prioli AD2CS** ran two highly-successful workshop sessions building the end-fed half-wave antenna transformer that's used for these popular antennas. More than 25 members attended the two Saturday sessions that were necessary to accommodate the large number of participants. Many of these devices may end up being used with the WSPR transmitters that were constructed in May. Notably many of the participants were newer Club members, and it's gratifying to see these members immediately getting involved in Club activities. We're always looking for interesting and useful construction projects that capitalize on our Club's unique capabilities - the Clubhouse workspace and Chris' ability to organize and lead these sessions - and hopefully we'll have one more such session before the end of the year.

August Is For Meteors!

The Perseids Meteor Shower appears overhead in August, peaking on the 12th and 13th so we'll be at the Clubhouse early - VERY early - on August 13th to bounce some radio signals off meteors as they flash through the sky. Meteor scatter operation uses the MSK144 protocol from the WSJT-X suite of programs and successfully bounces tiny signals off of fleeting meteor bursts by hammering them with repeated packets of data less than 100 milliseconds long. Operators can watch the signals being decoded - a long decoded transmission indicates a local signal being heard over ground-wave while a quick burst, particular from a distant callsign, indicates a transmission reflected from a tiny flash of a meteor. Seeing a decode from a W8 station in the Midwest is a sign of success.

Fair warning - watching meteor scatter isn't the most exciting activity that you'll find in ham radio! Over a two-hour operating period we may only make a half-dozen QSOs, so most of the time we're staring at a screen hoping for something to happen. But when it works it's pretty cool, so satisfaction has to result from achieving success at something difficult. Those who require instant gratification should stay home in bed. Hopefully we'll have a small group of intrepid experimenters who will show up at the Clubhouse at the 4 AM for a couple of hours of cutting-edge ham radio activity that only occurs a few times each year. The Tech Saturday Forum session on August 8th will be a planning session for this event.

Working Meteor Scatter At W2MMD Guide On The Skunkworks Website

A beginner's on-line field guide to working the Perseids meteor shower on 6 meters from the W2MMD Clubhouse using WSJT-X MSK144 - how it works, the exact software settings, the QSO process, where to point the beam, and a step-by-step plan for the Flex 6400 / 500 W station. Go to : **https://wp.w2mmd.org/wp/projects-and-activities/working-meteor-scatter-at-w2mmd-msk144-on-6-meters-perseids-guide**

Combining POTA And American History

Thanks to the efforts of **Stan Slachetka WA2JRZ**, GCARC members will have several opportunities to operate POTA with some of the most experienced POTA operators in the Club, and will do it in settings steeped in Revolutionary War history. The activation at the Hancock House is imminent on August 1st with **John Zaruba K2ZA** leading several other active POTA operators, followed up in September by a larger operation at Fort Mott.

President's Letter - Continued on page 3

President's Letter - Continued from page 2

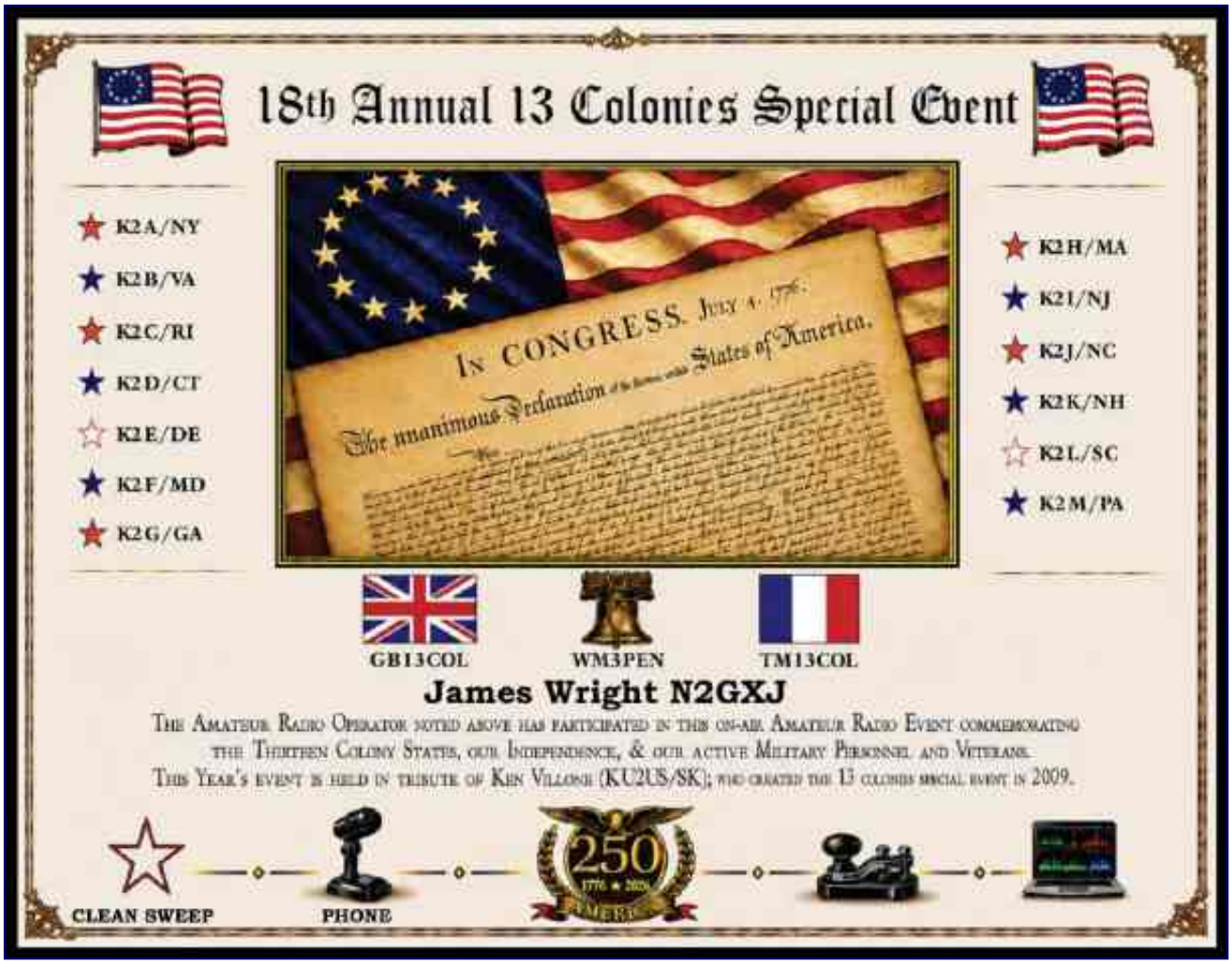
More detailed announcements of these events are elsewhere in CrossTalk, but POTA operating is one activity that appears to have consistently created interest among members, so this is the perfect opportunity to get outside and combine learning best POTA practices with the most experienced operators along with participating in a celebration of American history. Check out the announcements and sign up!

New Remote HF Station Radio!

Users of the remote HF station can rejoice in the significant upgrade made to the transceiver on that station. After consistent technical issues with the previous Kenwood TS-2000 and a temporary switch to a borrowed FT-991a the Board approved purchasing a new Icom IC-7300, which will be partially financed by selling the Kenwood. **Chris Prioli AD2CS** installed the Icom on Saturday 7/18. Hopefully this update will eliminate many of the technical issues and lessen the hassle for both the users and the maintainers of that station.

On a personal note, I announced at the July General Membership Meeting that I'm not a candidate for Club President for 2027. Most GCARC presidents have served one or two years and several have served three years, but only one before me has served four and none have exceeded that term. I didn't want to be the first, and when an exceedingly well qualified candidate told me of his interest in the office it made the decision quite easy (***See his announcement on Page 6***). I expect to continue as Tech Committee chair, which allows me to continue to manage Tech Saturday Forum sessions and support experimental projects. I'm also a candidate for Recording Secretary which will keep me as part of the Club leadership, so I'll still be around and active after my term as president concludes at the end of 2026.

73 de Jon WB2MNF



General Membership Meeting

Wednesday, August 05, 2026 @ 1900 Hours

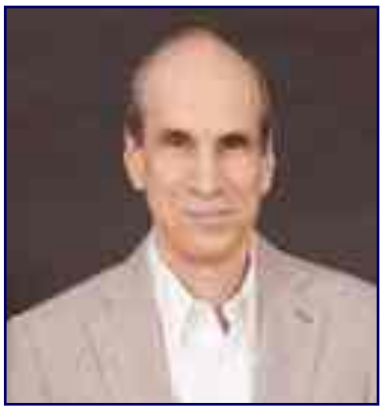
Pfeiffer Community Center

Simulcast Live Via ZOOM Meeting Link : https://bit.ly/4s67geS

Go to : https://gloucestercountyarc.weebly.com/2026-content--activities--resources.html to download the ZOOM log-on instructions PDF

Recreating The Apollo EVCS AM Transmitter

By Steve DiMedio N3IYE



Former RCA engineer **Steve DiMedio N3IYE**, will present a fascinating look at the Apollo EVCS AM Transmitter - the compact backpack radio that carried astronauts' voices and vital telemetry from the lunar surface back to Earth during the Apollo missions.

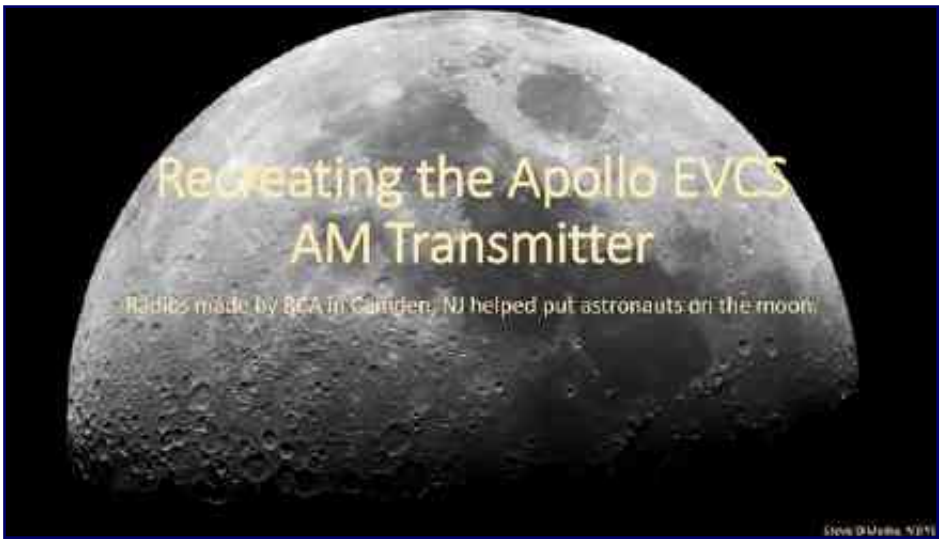
In 2019, Steve met the radio's original designer, **Jack Yanosov**, and was given access to an authentic EVCS unit. He reverse engineered a full schematic from that inspection, later confirming his work when he located the original 1968 RCA drawings in the company's microfilm archive.

Steve has since built a highly accurate recreation of the transmitter using period correct components, including early transistors, piston trimmers, and two first generation audio ICs. Only a few parts required modern substitutes. One missing piece - the modulation transformer - led Steve to design and wind a functional replacement based on RCA documentation and careful study of the original.

His presentation will highlight key lessons from the project, including :

- **Construction methods : Breadboard, protoboard, brassboard, and custom KiCAD PCBs**
- **Software tools : GNU Radio for AM demodulation and telemetry decoding**
- **SDR techniques : Using a low cost SDR dongle to emulate the Apollo comms link**
- **Test equipment : Tuning VHF circuits with a NanoVNA**

Steve will also show a demonstration video of the working transmitter, sending AM voice, EKG data, and telemetry to a nearby SDR receiver - bringing a piece of Apollo engineering back to life.



Tech Saturday Forum

August 08, 2026 @ 0900 Hours
W2MMD Clubhouse

Forum Topic : Meteor Scatter
Introduction & Planning Session for the Perseids Meteor Shower on August 12 - 13, 2026

August Is For Meteors!
By Jon Pearce WB2MNF

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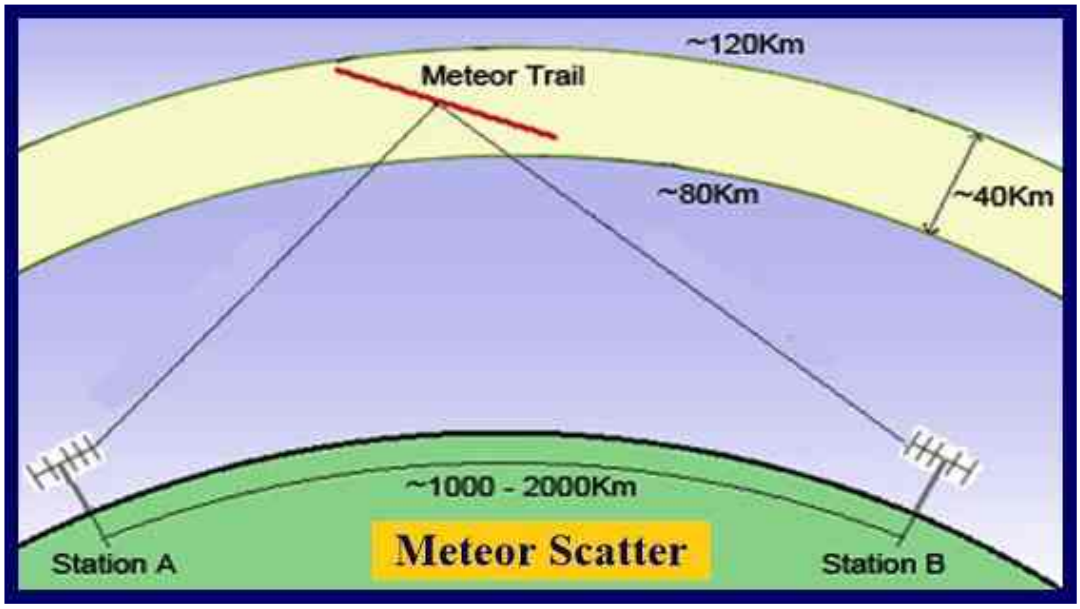


Why I'm Running…

By John Zaruba Jr K2ZA

I'm sure that you're all aware that **Jon Pearce WB2MNF** has announced that he is not seeking re-election. I'd like to take this opportunity to thank Jon for his service; the Club is better for it.

I would like for my fellow Club members to consider me a candidate to succeed him in the upcoming election this fall, and would like to summarize my motives for seeking the office.

2027 will be my 50th year as a Gloucester County Amateur Radio Club member, joining as a 13-year-old who was hesitant to talk on the radio because of having a child's voice (on CW, no one can hear your voice crack).

GCARC has been my home longer than I've lived anywhere; it's my extended family. There are members that have watched me grow up, there are my peers that I grew up with (Looking at you **K3TS**, **WB2AOL**, and **KB2AYU**!), and there are a few hams in our group that I've seen grow up.

The Club has been a constant in my life through both joy and pain, and I'd like to repay, in some small way, all it has done for me.

Hoping for your support,

73,

John Zaruba K2ZA
GCARC Recording Secretary

The Gloucester County Amateur Radio Club Volunteer Examiner Team Website. Everything you need to know about getting your ham license or upgrading your license can be found on this website. Pass It Around!

https://veteam.w2mmd.org

W2MMD

www.facebook.com/W2MMD

The Gloucester County Amateur Radio Club Welcomes Honorary Member Bob Famiglio K3RF

The statement below from **Bob Famiglio K3RF** was in response to **Club President Jon Pearce WB2MNF**'s message congratulating Bob on becoming an Honorary Member of the Gloucester County Amateur Radio Club.

"I wanted to get back to express my sincere appreciation to you and your Club, well, now my Club too, for the honorary membership. I can tell you that I have always enjoyed visiting GCARC and the ham-fest - you will see me there in October! I will urge my successor to attend as well though it is a long drive for him. I find the venue pleasant and the country drive through SNJ to the Clubhouse grounds enjoyable. I will endeavor to come to meetings on occasion - I enjoy chatting with you guys.

I am a big believer in Amateur Radio for many great reasons. It had become a way of life for me since I was a kid. And yes, I tried to respond, support and respect every club - even those outside Atlantic which reached out to me for assistance because their own ARRL representatives were of little help. (Don't get me started on that either). You and the gang at GCARC can count on me to continue support. If you need a speaker on a topic I embrace, whether legal or EMCOMM or whatever, I am in.

Please express my gratitude and appreciation to all the members for the honor GCARC has bestowed on me. It means more than I can tell you. Please be assured I will continue to promote and support Amateur Radio in many ways. I am proud to also tell you I continue to get mail in support from all over our country, from hams I don't even know, not just from the Atlantic Division. My situation has grown legs, has raised serious dialog, and some members of our League on social media have made me into a folk hero of sorts. That has been both pleasant and very unexpected. It may have even started some reform at our League. We will see what our future holds."

73 and I will see you on the radio. And at GCARC events.

Bob Famiglio, K3RF

Past ARRL Atlantic Division Director
Ex-Chairman Legal Defense Committee
Ex-Chairman ARES Subcommittee
610-359-7300
www.QRZ.com/db/K3RF

August 4th

NATIONAL NIGHT OUT
NNO
2026
POLICE • COMMUNITY PARTNERSHIPS

UNITED STATES COAST GUARD
SEMPER PARATUS
1790

Welcome New Club Members :

Michael Canino KE2IXG, a Technician Class from Pittsgrove, NJ.
Dominic Francesconi KE2IWQ, a General Class from Haddon Township, NJ.
Sandy Stevenson, an Associate Member from Sewell, NJ.
Rabih Tannous W2VO, an Amateur Extra Class from Cumming, GA and Lebanon.
Edward Warren KE2IVT, a Technician Class from Atco, NJ.

Robert Famiglio K3RF, an Amateur Extra Class from Media, PA : Honorary Membership.

We are glad to have you as a member of the Club and hope to see you regularly at Club meetings, events, and activities. Hope to see you at :

- **The August 5th General Membership Meeting, either in-person or on ZOOM**
- **The August 8th Tech Saturday Forum @ the W2MMD Clubhouse**
- **The Board of Directors Meeting on August 19th**
- **The Dinner @ The W2MMD Clubhouse on August 26th**

We also hope to "SEE" you on the "AIR" on the following nets :

- **Sunday Night Skywarn 2 Meter Net @ 1930 Hours**
- **Sunday Night ARES 2 Meter Net @ 2000 Hours**
- **Tuesday AfterNoon 2 Meter Net @ 1200 Hours**
- **Monday & Thursday Night 40 Meter Nets on 7.172 MHz (+/- 10 kHz) @ 1930 Hours**
- **Thursday Night Rag Chew 2 Meter Net @ 2000 Hours**

All 2 Meter Nets are on our 147.180 MHz (PL 131.8) repeater or on EchoLink W2MMD-R.

ARRL is calling on all radio amateurs and GRMS licensees to join our nationwide grassroots campaign to pass the **Amateur Radio Emergency Preparedness Act**. ARRL has made it very easy to send your letters to Congress. Hams should go to **https://send-a-letter.org/HOA** and GMRS users should go to **https://send-a-letter.org/GMRS**. The letters will automatically be sent to your elected officials encouraging them to support the bipartisan bills. Passage would give amateur radio operators the same rights to install antennas on their property as those enjoyed by users of TV antennas, wireless internet, and flagpoles. Radio clubs should also prepare letters of support, signed by each club officer.

See instructions for clubs (PDF) and a sample letter for clubs (DOCX). For more information about the ARRL campaign to Pass The Bill, visit **www.arrl.org/HOA**. And please share these YouTube videos on your personal social media.

Article Credit : The ARRL Letter for November 6, 2025 - **www.arrl.org**

I have created a page called "Quick Links"

On this page you will find "Buttons" to some the most popular pages
I will add more as time goes on, but I hope this helps your journey navigating through your Club Website!

https://gloucestercountyarc.weebly.com/quick-links.html

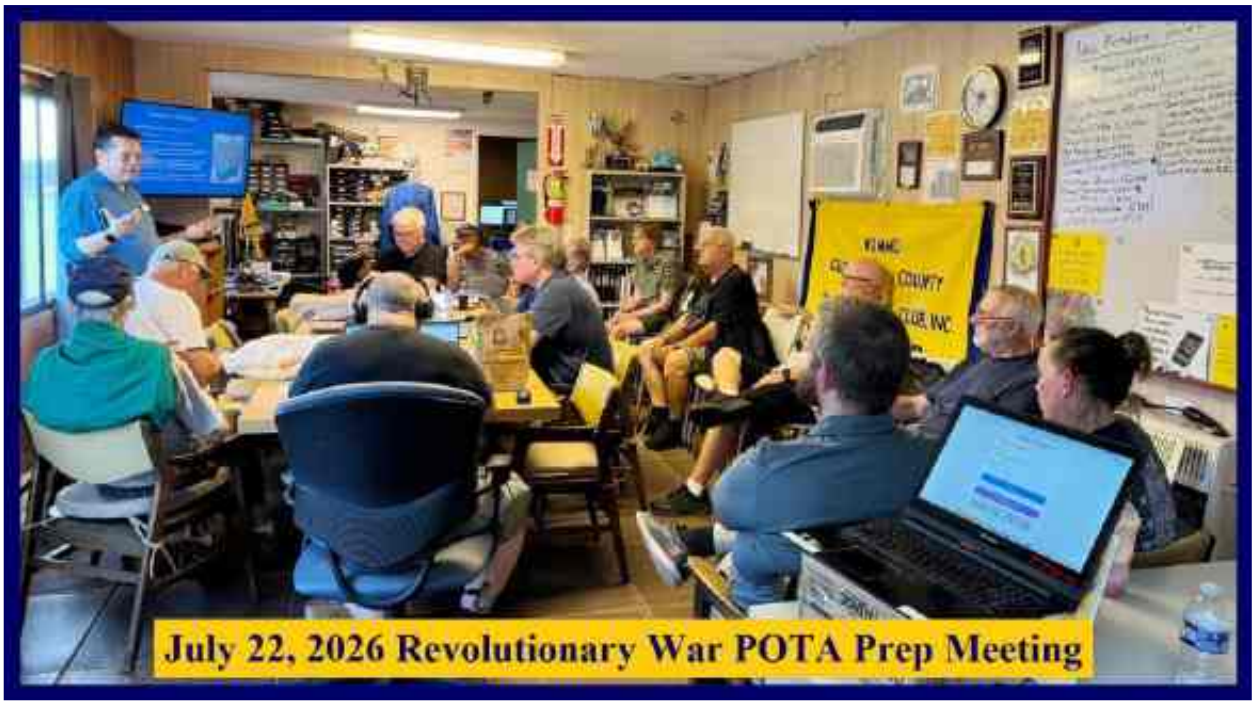
DAs & DITs

>> Condolences to the family of former Club member **Gregory Potter WN2T** of Pitman who passed away on June 23, 2026. Here is his obituary : **https://www.kelleyfhpitman.com/obituaries/Gregory-C-Potter?obId=48803290**

>> Congratulation to **Kevin Durrenberger AD2NB** on becoming an ARRL member.

>> Congratulations to **Russell Stevenson KE2HVQ** who upgraded to General Class.

>> **John Zaruba K2ZA**, reports, GCARC now has an account with Parks On The Air. If you do any activations with the Club callsign, please send the adif file to pota@w2mmd.org.



Be A Club Volunteer!

Clubhouse Construction Volunteer Projects :

Shed : Build Ramp

Clubhouse :

- **Build Ramp**
- **Replace Interior Front Door**
- **Power Wash Siding**
- **Replace Back Steps**
- **Replace paneling in Main Room**
- **Replace AC in Main & HF rooms**
- **Install drop ceiling in Main Room**

Lightning Protection Project :

- **Complete grounding rod installation around Clubhouse and Towers**

Install Utilities On New Front Parking Lot Pole

Install Antennas On New VHF Towers

Field Day 2026 After Action Report

By Jim Wright N2GXJ

It's a rain or shine tradition. And your Gloucester County Amateur Radio Club was in on this, the greatest on-air operating event in North America again this year during the fourth full weekend in June. Operating 9 simultaneous transmitters on multiple amateur radio bands and in multiple modes, plus a get-on-the-air transmitter, a solar powered station, a Winlink station, and a satellite station all with off-the-grid power using temporary antennas and setups in the fields around our Clubhouse out at the 4-H Fairgrounds in Mullica Hill NJ, it was a big group effort that we pulled off again this year. Well done everyone!

If you missed the highlights in the stories shared at our "free pizza" Club meeting night on July 1, here's a recap of some of the details.

There was plenty of rain during the Saturday morning, but many had anticipated this and had opted for "rolling" shelters this time. The number of stations choosing to operate out of vans, trucks, and campers well out numbered tent set ups this year. Ever creative, it seems we saw a little of everything when it came to roll-in setups this year, including :

- A multi-station "palace on wheels" that long-time fellow field day enthusiast **Tony K3TS** rolled in from PA for his 20M CW, and **Darrell AB2E**'s "clear the bands" 15/80 CW/DIG mega contact operations, while also offering a home base for Vinnie N4NYY while waiting for the weather to break ahead of operating the alternative power station
- A pair of "POTA people" we-can-live-out-of-these-anywhere campers set up in the back field to house **Greg K3GC's** 15M phone and **Melissa KE2BWZ's** 40M digital operations
- A Starlink-internet-connected home-on-wheels set up along the front tree line to house **Sheldon**'s 40 meter CW operations
- A rental van **Bill NJ2S** had customized with 40M phone field day retrofits (temporarily, of course), including an air conditioner as a front seat passenger, and radio position tables and a few "chairs" (was one a bucket?) in the back for operators and always welcome guests to sit on
- A closet sized "can two people really fit in there?" bubble-with-no-windows on two wheels that **Eric N2BRJ** pulled in behind his truck used to house the 20 meter digital operations
- A creative use of a "pod" box by **Al KB2AYU** to keep his 10 meter radio and operating position in a quick-to-close dry arrangement should the pop-up 10x10 he was sitting under not be sufficient to keep the elements out
- A fully functional drive-up-and-I-am-ready fastest-to-setup Winlink station on wheels, operated by **Court KD2SPJ** using equipment contained inside and antenna on his truck

Thankfully, the overcast kept temperatures very modest by late June standards, making for a relatively "comfortable" field day after the initial rains had passed on Saturday. Rounding out the setups were :

- **Chris AD2CS** and crew's mega tent camp for 20 meter phone, with a multi-chair front porch under dry cover for socializing
- A combo welcome center area with GOTA tent set up near the front entrance for **Mike N2WOQ** and coaches to be positioned to greet visitors and encourage those who were brave enough to get a taste of what it's like to push a talk button on field day
- And a wait-until-the-rain-has-for-sure-passed-before-try-any-setup satellite station, placed on a dry table under clear skies after dark to try and make that one elusive bonus point contact

In the QSO category, collectively we made a whole bunch - over 3100 contacts, slightly higher than last year's total. Collectively, we had at least one contact to every North American section in USA and Canada this year. That's all 71 ARRL sections, including AK, PAC, PR, VI, plus all 14 RAC sections, including the sometimes elusive TER (covering the Northwest Territories and Nunavut), which is quite impressive.

N2GXJ Field Day - Continued on page 11

N2GXJ Field Day - Continued from page 10

CW ops shone bright this year, with a 61% increase on 80 meters and a 39% increase on 15 meters. Digital contacts were up by nearly 200 contacts on 20 meters this year, and by 54% on 15 meters, though CW still outpaced Digital as the mode with most QSO by just over 500 contacts. Though phone contacts as a whole were down slightly, they were noticeably higher on 15 meters and significantly higher on 10 meters this year compared to last.

In the bonus activities categories, we did quite well, demonstrating our ability to excel in the many dimensions of field day. And then there's the culinary specialists that delivered big time this year. Nobody went away hungry over the 24 hours. And to the many that came by to say hello, and see what this field day was all about this year, great to see you out!

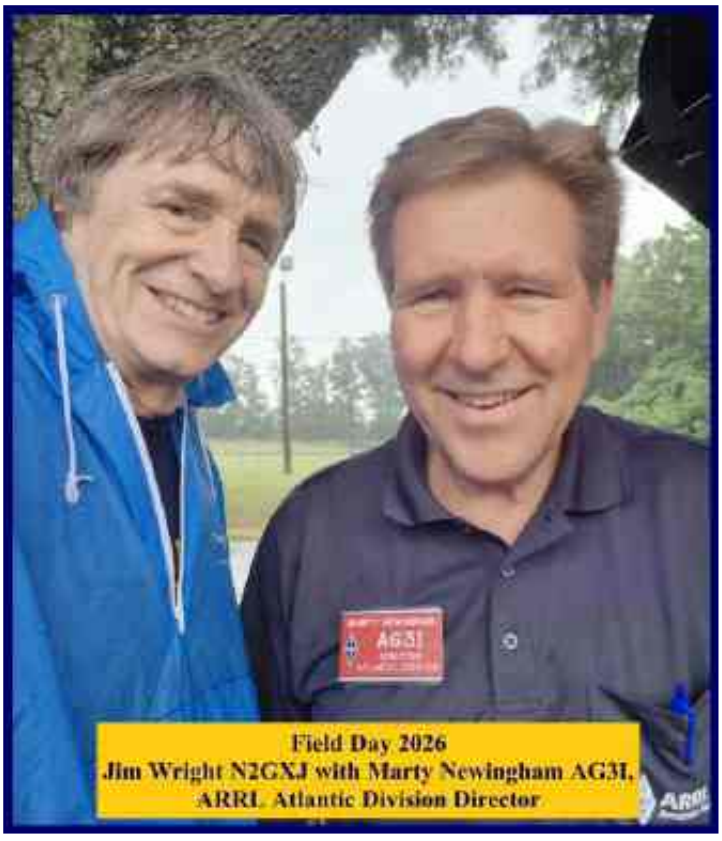
Sure, not everything worked out, but lots did. This is field day, after all. We learn some, we laugh some, and we dream some. That's the way it is.

What a great event!

What a great team!

Thank you all, very impressive!

Can't wait to see what everyone brings to the field next year!



W2MMD FD 2026, 9A SNJ.
All contacts 100W or less in all modes.
band mode breakdown

Total Contacts by Band and Mode (v1):

Preliminary Total Score : 13,905

Band	CW	Phone	Dig	Total
80	313		15	328
40	624	124	282	1030
20	308	34	603	945
15	370	104	129	603
10		128	65	193
6				
2		10		10
SAT				
GOTA		17		17
	--	-----	---	-----
Total	1,615	417	1,094	3,126

GCARC Monthly VE Exam Testing Summary - July 2026

By Chris Prioli AD2CS

The July 2026 GCARC VE session was held on Thursday, 9 July. The VE session was held at the W2MMD Clubhouse and was administered by Volunteer Examiners as listed below, with Chris Prioli AD2CS serving as Team Liaison for the event :

- **Joe Gadoury N2JJG**
- **Gary Reed N2QEE**
- **Lenny Rust W2LJR**

There were two candidates as listed below, each of whom sat for their exams as indicated in the following list. The candidates were :

- **Dom Francesconi KE2IWQ**, new General Class from Haddon Township, NJ
- **Russ Stevenson KE2HVQ,** new General Class from Sewell, NJ

It should be noted that **Dom Francesconi** sat for both the Technician Element 2 and the General Element 3 exams, successfully completing both of them. As a result, he is scored as both a Technician and as a General in our team statistics.

The VE Team proctored the exam session using only electronic methodologies, in accordance with our current policy.

The next regularly scheduled VE session will be held on Thursday, 13 August 2026, at 1900 Hours at the W2MMD Clubhouse. The VE team will be using the ExamTools system to its fullest capability, within our current technological means.

It is important that all test candidates going forward will be advised, whenever possible, to pre-register and pre-pay for the exam online. Specifics of that process are explained at : **https://veteam.w2mmd.org**

GCARC VE Team Historical Summary

	Technician Class	General Class	Amateur Extra	Total
2016	18	8	6	32
2017	22	19	4	45
2018	29	23	5	57
2019	16	10	8	34
2020 *	8	4	1	13
2021 *	8	5	1	14
2022	22	15	18	55
2023	20	18	10	48
2024	22	12	6	40
2025	24	14	6	44
2026	8	3	3	14
2027				
2028				
2029				
2030				
Totals	197	131	68	396
	* Pandemic	Period		

Gloucester County Amateur Radio Club
YouTube Channel
https://www.youtube.com/@W2MMD

What's happening in the ARRL Southern New Jersey Section??
Subscribe to the ARRL SNJ Section Groups.IO
https://groups.io/g/ARRLSouthernNewJerseySection

Membership Badges Ready For Pick-Up

They can be picked up at the W2MMD Clubhouse or at the monthly General Membership Meetings

Alex Calabrese WA2ADS
Jon Davidson KE2DYD
Robert Erenburg KD3BGJ
Jim Foster W3JNF
Deirdre Anne Hebert AD2GQ
Gary Hewitt N2WHV *
John McGonigle KC3ZJX
Jack Snyder AI2D
Harry Strahlendorf W3DNQ
Marian Yanka KE2GOL

The Clubhouse is open and accessible every Saturday from 0700 until 1600 Hours, and on the third and fourth Wednesday evening of each month as well as the second Thursday evening of each month from about 1700 until 2000 Hours.

The badges can also be picked up at any General Membership Meeting. They will be displayed at the Hospitality Table

If there is an asterisk (*) after your call sign above, your badge is a replacement and has a cost of $5.00 payable to the Club at the time of pickup of the badge.

Club Merchandise from the K2ZA Workshop
Contact John Zaruba Jr K2ZA at k2za@icloud.com
Go To : https://gloucestercountyarc.weebly.com/club-merchandise.html

ADIF Logs Wanted When Operating As W2MMD @ The Clubhouse

By Jim Wright N2GXJ - Contact me via e-mail on Club Roster List

It is a common courtesy in ham radio to be able to QSL 2-way contacts made with other hams. We're pretty good about doing this for our field day contacts made each year, but are falling behind in this for contacts we make from the Clubhouse as W2MMD.

So here is the ask :

If you operate from the Clubhouse as W2MMD (e.g. on HF, UHF/VHF, or on Satellite, at Tech Saturday, or during contests or other), please email me the electronic log entries in ADIF format from the logger program you used for those contacts?

That way, just like I do following field day each year, I can get them uploaded to LOTW and to eQSL to offer the courtesy of an electronic QSL to those who make contact with us as W2MMD here in NJ.

Thank you

Regional (Atlantic & Hudson Divisions) Hamfests & Events

August 01, 2026 : Tompkins County Amateur Radio Association, Hamfest, Tompkins County Fairgrounds, 2150 Trumansburg Road, Trumansburg, NY. **www.tcara-ny.org**

August 08, 2026 : Tryon Amateur Radio Club, Southern Adirondack Hamfest 2025, Town of Mohawk Fire Department, 2645 State Highway 30A, Fonda, NY. **www.adkhamfest.org**

August 08, 2026 : W3PIE 76th Annual Gabfest, Uniontown Amateur Radio Club, 433 Old Pittsburgh Road, Uniontown, PA. **www.w3pie.org**

August 08, 2026 : Ramapo Mountain Amateur Radio Club, RMARC 45th Annual Hamfest, Christ The King Lutheran Church, 50 Erskine Road, Ringwood, NJ. **www.qsl.net/rmarc**

August 09, 2026 : Mid-Atlantic Amateur Radio Club, Valley Forge Hamfest, Kimberton Fire Company Fairgrounds, 762 Pike Springs Road, Phoenixville, PA. **www.marc-radio.org**

August 29, 2026 : ROC City Net, 8th Annual Hamfest, Log Cabin Restaurant, 2445 West Walworth Road, Macedon, NY. **www.roccityhamfest.com**

August 29, 2026 : Reading Radio Club, Hamfest, Heritage Park, 992 Clematis Street, Sinking Spring, PA. **www.w3bn.org**

August 29, 2026 : Ocean Monmouth Amateur Radio Club, OMARC Fall Hamfest, Spring Lake Volunteer Fire Company Number One, 700 Sixth Avenue, Spring Lake, NJ. **www.n2mo.org**

August 30, 2026 : Skyview Radio Society, Swap N Shop, Skyview Radio Society Clubhouse, 2335 Turkey Ridge Road, New Kensington, PA. **www.skyviewradio.net**

The Education Connection

By Chris Prioli AD2CS - chris@ad2cs.com
www.ad2cs.com

August 2026

By the time you read this, both build sessions for the End-Fed Half-Wave Antenna will be in the rear-view… but that brings up the topic of this month's Education Connection column. You see, we have created a tool that allows Club members (and others) to pass on to the Club leadership your opinions regarding possible re-issues of past Club build projects.

It should be no secret that there is a Club web page that serves as the landing page for our various registration forms for various group participation events. That page, the **GCARC Payment and Registration Portal** page, can most always be found at : **https://registration.w2mmd.org/wpregp**. It is active at all times, even when there are no active registration forms posted. What is new to that page is a **Build Project Interest Survey (https://registration.w2mmd.org/wpregp/build-project-interest-survey)** - a page that contains a very brief survey form via which visitors are able to express their interest in seeing various past build projects reissued.

The idea is that when any given project sells out, the former link to the registration page for that project will redirect the interested visitor to the survey page. If sufficient interest still exists, even beyond initial sell-out of a project, we will most likely re-order the materials and re-offer the project. However, we must know what the interest level is in order to make such a decision. Therefore, it is very important that any interested party, finding that a given project has sold out, completes the interest survey to pass on the information about their continued interest in the project. I see this tool as being a key factor in any future decision to re-issue a past project.

On a slightly different topic, it is time to start thinking about the next group build project. If there is an idea that you may have regarding a potential project that may be suitable for adapting to a Club group build session, please feel free to pass the idea on. This can be done via a straight email to me or to Jon Pearce, or it may be done using the Build Project Interest Survey form cited above. At the bottom of the survey form is a free-form text field where the user can type in a text response. Use that field for passing on any project ideas.

Finally, the time is fast approaching for Session XI of the GCARC Ham Exam Test Preparation Class program. I already have two individuals who have registered for the Element 2 Technician class. I hope to have enough registrants to run all three Elements this time around, but time will tell. **The tentative class schedule is on Page 16**. Note that all three classes are scheduled for the exam on the same evening. The ExamTools electronic testing has made this not only possible, but has made this into the preferred manner of testing.

Registration for these classes is always open through the GCARC Payment and Registration Portal as cited above. Specifically, the registration page is found at : **https://registration.w2mmd.org/wpregp/license-class-registration**. Further information about the classes can be found at : **https://veteam.w2mmd.org/wpve/index.php/gcarc-ham-license-exam-preparation-class-information**.

See you next month!

https://hamxposition.org
HamX - The Northeast HamXposition
August 13-16, 2026
Where Knowledge Radiates℠

GCARC Ham Exam Test Preparation Class Program
2026 Session XI - Class Times : 1800 - 2100 Hours
Weeks 1 through 12 + VE Testing : Monday, December 7, 2026

	Element 2 Technician	Element 3 General	Element 4 Amateur Extra
Week 1	Monday, September 14, 2026	Tuesday, September 15, 2026	Friday, September 18, 2026
Week 2	Monday, September 21, 2026	Tuesday, September 22, 2026	Friday, September 25, 2026
Week 3	Monday, September 28, 2026	Tuesday, September 29, 2026	Friday, October 2, 2026
Week 4	Monday, October 5, 2026	Tuesday, October 6, 2026	Friday, October 9, 2026
Week 5	Monday, October 12, 2026	Tuesday, October 13, 2026	Friday, October 16, 2026
Week 6	Monday, October 19, 2026	Tuesday, October 20, 2026	Friday, October 23, 2026
Week 7	Monday, October 26, 2026	Tuesday, October 27, 2026	Friday, October 30, 2026
Week 8	Monday, November 2, 2026	Tuesday, November 3, 2026	Friday, November 6, 2026
Week 9	Monday, November 9, 2026	Tuesday, November 10, 2026	Friday, November 13, 2026
Week 10	Monday, November 16, 2026	Tuesday, November 17, 2026	Friday, November 20, 2026
Week 11	Monday, November 23, 2026	Tuesday, November 24, 2026	Friday, November 27, 2026
Week 12	Monday, November 30, 2026	Tuesday, December 1, 2026	Friday, December 4, 2026
Exam	Monday, December 7, 2026	Monday, December 7, 2026	Monday, December 7, 2026

Rich Subers W2RHS, Silent Key

November 12, 1953 - July 29, 2026

Barclay Funeral Home, Clayton, NJ

Sunday, August 2, 2026 at 10:00 am

https://www.barclayfuneralhome.net/obituary/richard-subers

It is sad to report that Rich Subers W2RHS has passed away after a long fight with cancer. Rich was a constant presence at Club events and contributed significantly to the activities of the Club.

Rich joined the Club in 2021. Rich was always one of those behind-the-scene guys who helped out where ever he could. He manufactured a lot of those boxes that Chris used in his building projects.

He will be missed by all of us. Memorial service will be at the Barclay Funeral Home in Clayton on August 2, 2026 at 10:00 am.

At the request of the family, the Club has set up a website to accept donations in memory of Rich.

If you wish the donate, please go to :https://registration.w2mmd.org/wpregp/make-memorial-donation

Tuesday AfterNoon Net @ 1200 Hours

147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

Here is the schedule for the upcoming weeks

Greg Ciraula K3GC : August 4, 2026
Steve Farney W2SEF : August 11, 2026
Steve Farney W2SEF : August 18, 2026
Jeff Garth WB2ZBN : August 25, 2026

If you would like to be a Net Control Station for this net, please contact Steve Farney W2SEF

Thursday Night Rag Chew Net @ 2000 Hours

147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

Here is the schedule for the upcoming weeks

Jeff Garth WB2ZBN : August 6, 2026
Mary Delemarre W2TDS : August 13, 2026
Gary Mirkin WA3SVW : August 20, 2026
Steve Farney W2SEF : August 27, 2026

If you would like to be a Net Control Station for this net, please contact Jeff Garth WB2ZBN

"Dinner @ The W2MMD Clubhouse"

Wednesday, August 26, 2026 @ 1800 Hours

Need a ride to a Club meeting, event, or activity?

Just send a message to the Club's e-mail reflector asking if a member can pick you up

GCARC <*at*> MAILMAN <*dot*> QTH <*dot*> NET

All Club members have access to this FREE e-mail service

The Gloucester County Amateur Radio Club CrossTalk Magazines from 1959 to the present are on the Internet Archives website :
https://archive.org/details/gcarc-crosstalk

You can search the CrossTalk Newsletter Archive By Selecting "Search Text Contents", enter the data in the Search box & click "Search this collection"

Gloucester County Skywarn Net

The Gloucester County Skywarn Net is held every Sunday @ 1930 Hours on the 147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

All Are Welcome To Participate
Net Control Station : Jeff Garth WB2ZBN

Gloucester County ARES Net

The Gloucester County ARES Net is held every Sunday @ 2000 Hours on the 147.180 MHz (+) (131.8) Repeater & EchoLink W2MMD-R

All are welcome to participate

Net Control Stations :
Al Arrison KB2AYU; Steve Farney W2SEF; Jeff Garth WB2ZBN; Bob Keogh KD2NEC; Angela Metzger KE2DRJ; Craig Metzger KE2GNU; Gary Mirkin WA3SVW

Bob Keogh KD2NEC : August 2, 2026
Steve Farney W2SEF : August 9, 2026
Angela Metzger KE2DRJ : August 16, 2026
Steve Farney W2SEF : August 23, 2026
Craig Metzger KE2GNU : August 30, 2026

Anyone who is interested in joining the Gloucester County ARES Team, is invited to contact Steve Farney W2SEF at sef001@comcast.net

Monday & Thursday Night 40 Meter Net @ 1930 Hours
7.172 MHz (+ /- 10 kHz)
NCS : Jim Clark KA2OSV

ARRL Learning Center
https://learn.arrl.org

Discover how to make Amateur Radio your own.

Online courses from the ARRL Learning Center provide ARRL members with additional instruction and training for getting on the air, emergency communications, and electronics and technology

At The Repair Bench…

A monthly column describing a recent repair bench event.

By Chris Prioli AD2CS - chris@ad2cs.com - www.ad2cs.com

Ameritron AL-80B RF Amplifier - August 2026

A little while back now, a fellow GCARC member approached me to discuss making some modifications to his **Ameritron AL-80B RF amplifier (Figure 1).** What he was looking for primarily was a conversion from 115VAC supply voltage to 230VAC supply voltage. However, knowing these amplifiers as I do, I told him that while we were in there, we should check it for some other known problems that the AL-80 series of amplifiers frequently have, and for which the original designer of these units has worked out some field fixes. We will talk more about these problems and their fixes later on. For now, though, it is important to understand that the owner of this specific amplifier had never powered it up.

Figure 1 : Ameritron AL-80B RF Amplifier

Some history is called for here. He had owned an AL-80 series amplifier at some time in the past, and he had operated that one from a ***nominal*** 230VAC line that he had an electrician install specifically for that purpose. I am unclear as to what happened to that amplifier, but I do know that he recently purchased this one from an estate sale, learning then that it was wired for 115VAC operation. Naturally, he wanted to change that, which is usually not a big job… so long as the proper information is known going into the job.

Figure 2 : Transformer Jumper Setup

The AL-80B was designed with the ability to operate from a wide range of input supply voltages, and there are several different wiring schemes involved to make that possible. These schemes all involve changes to the connections to and from the power transformer, with the specific circuit paths chosen based upon the expected supply voltage. The jumpers to be "set" for each different supply voltage are located on the power supply/SWR board, and are shown in **Figure 2**. As can be seen by a quick look at the data in the jumper setting table shown in **Figure 3**, this unit can be set up to operate from any one of fourteen different supply voltages, and as we will see shortly, it really does make a difference which setting is chosen.

HIGHEST LINE-V	JUMPER FROM TOP LETTERS TO BOTTOM LETTERS IN COLUMN						LINE FUSE
	A	B	C	D	E	F	
205		C	B		3	1	12
215		C	B		3	2	12
220		C	B		2	1	12
230		C	B		F	E	10
240‡		C	B		1	2	10
245		C	B		2	3	10
250		C	B		1	3	8
90	B	A	D	C	3	1	25
100	B	A	D	C	3	2	25
110	B	A	D	C	2	1	25
115	B	A	D	C	F	E	20
125†	B	A	D	C	1	2	20
130	B	A	D	C	2	3	20
140	B	A	D	C	1	3	15

†Factory wired Model AL-80B and AL-80BY
‡Factory wired Model AL-80BX

Figure 3 : Jumper Setting Table

When I asked the owner what his actual voltage at the nominal 230VAC receptacle was, he had no idea whatsoever. Ultimately, when we had some difficulties, he purchased a voltmeter and measured the receptacle source voltage. More about that later.

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At The Repair Bench - Continued from page 19

Knowing that my receptacle delivers between 226 and 231 volts, and working on the assumption that his could not be very different, and also because he could not provide me with an actual voltage to shoot for, I chose to set the unit up for the 230VAC setting. Part of changing the amplifier over to a two-phase supply voltage involves changing out the pair of line fuses from the existing 20-ampere rating to fuses with a 10-ampere rating, and I did so, additionally providing the owner with a pair of spare 10-ampere fuses.

That job is very simple, and only requires the desoldering of any existing jumpers, moving them to their new positions, and then re-soldering the connections. All of that is very easily done, and it took just a matter of a few minutes to accomplish the task. With that part of the job done, I set about looking into the known problems with which the AL-80 amplifier family is faced. These known issues, for which field fixes are available, include :

- **Replacement of the shunt *"bleed"* resistors on the filter capacitors**
- **Installation of ground braid to the grid pins of the 3-500Z vacuum tube**
- **Installation of a pair of 230V gas-discharge tube fuses in the tube filament circuit**
- **Installation of a PTC fuse in place of a resistor used as a fuse**
- **Installation of a resistor in the relay timing circuit**
- **Replacement of a timing capacitor**
- **Installation of Zener diodes at two different locations**

There are other known issues with this family of amplifiers; these are just the ones that this particular copy needed to have corrected. With the exception of the eight shunt resistors, all of the necessary parts for the repairs are available in kit form directly from the original designer of the amplifier, who is the individual that developed these fixes. In its storied past, the Ameritron AL-80 amplifier family finally ended up under the MFJ umbrella, and some things started to get wonky at that point. For example, the issue of poor-quality shunt resistors had been discovered earlier in the amplifier's history, and had been resolved. However, in building the newer versions of the AL-80, MFJ had run out of stock on the newer high-quality shunt resistors, and instead began installing the resistors that are now infamously known as the ***"pink resistors"*** **(Figure 4),** which are of a decidedly lower quality. It almost seems as if there was no clear continuity to the build process, as different amplifiers had different problems in their assembly, issues that had been known and resolved earlier, but somehow slipped through the MFJ build process uncorrected. That was the case with this particular example of the AL-80B amplifier.

Once I had catalogued the problems with this amplifier, I ordered in the parts that I would need to make the corrections, including a set of eight replacement shunt resistors. Then I set the unit aside to wait for the parts to arrive.

A week later, I had all of the parts on hand, so I got back to work. The replacements of the shunt (bleed) resistors was a straight-forward job, hampered slightly by the fact that the original resistors had been installed using lead-free solder. This meant that I first had to dilute the lead-fee solder with leaded solder in order to get it all removed from each of the resistor joints.

At The Repair Bench - Continued on page 21

At The Repair Bench - Continued from page 20

That process added some time and effort to the job, but it was still not too bad. This is a very important modification, and is one that must be made on any AL8X amplifier model that has the pink resistors installed. The pink resistors have abnormally high failure rates, and the failure of a single resistor in this network can and often does cause the failure of ***all*** eight filter capacitors. These resistors, R112 through R119 in **Figure 5**, are 50kΩ 7W 5% metal oxide types, but were replaced with 56kΩ resistors.

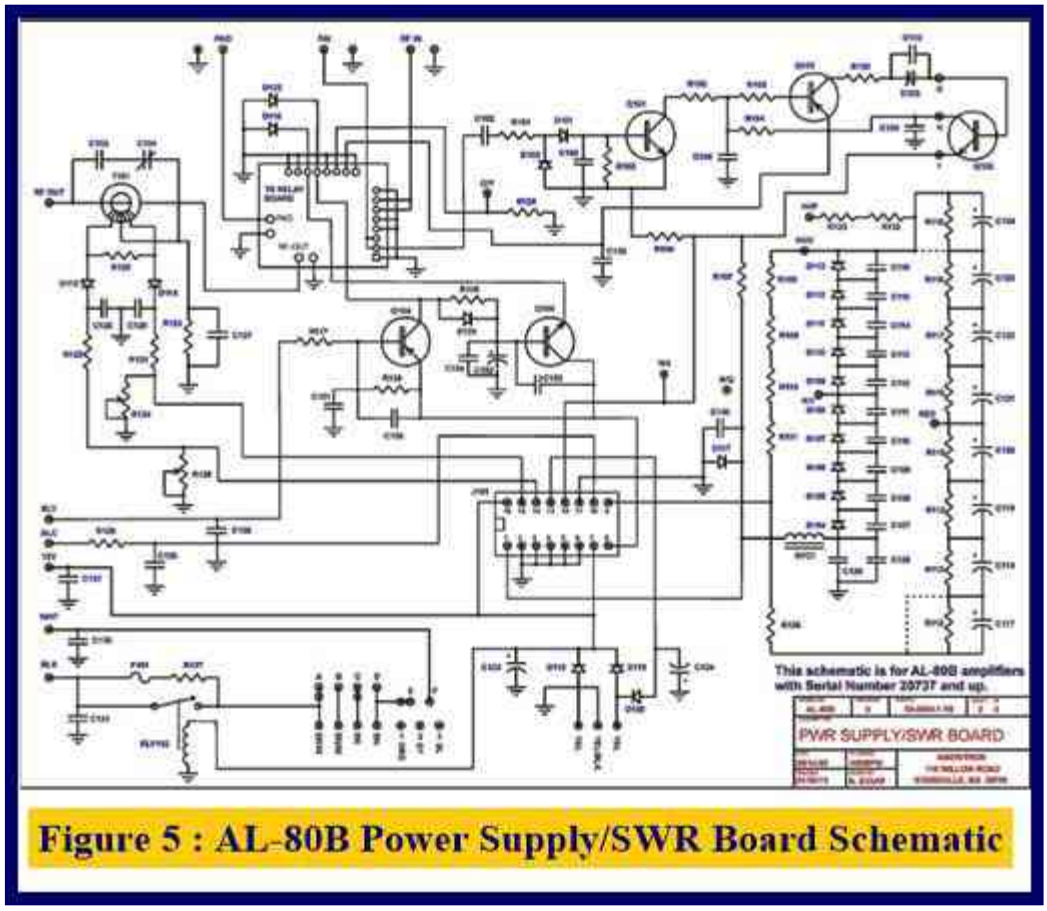


Figure 5 : AL-80B Power Supply/SWR Board Schematic

The modifications around the tube socket were more difficult, due to the meticulous nature of working with this tube socket and, again, with the lead-free solder found there as well. Once the tube socket modifications were made, it was a simple matter to install the two Zener diodes. One of these diodes, a 1N7452A 5.6V Zener, went into the relay keying circuit, as did a 2.2kΩ resistor. The other, a 1N4739A 9.1V Zener, went into the EBS circuit. This circuit electronically adjusts the bias to provide for cleaner and quieter vacuum tube operation.

An existing 10Ω fuse resistor R35 was removed and replaced by a PTC fuse rated at 500mA, and an existing electrolytic timing capacitor C52 was replaced with a 0.33µF monolithic ceramic capacitor.

That all sounds like a lot of work, but it really was not all that bad. Careful attention to detail was required, and some of the connections were made as bridged connections above the board, but it all worked out in the end.

I reassembled the amplifier and put it on the test bench. With an input supply voltage of 229.2VAC and an RF drive level of 70 watts, the amplifier put out 850 watts into my 2500-watt dry dummy load. I was satisfied with that, and I was sure that the owner would also be happy with that outcome. I prepared the invoice and returned the amplifier to its owner, thinking that the job was done.

Boy, was I ever wrong about that!

The owner had no sooner plugged in the amplifier and turned it on when it started humming loudly and then blew one of the pair of line fuses. Naturally, he returned the amplifier to me for correction of the problem, whatever it was. I was baffled, as the unit had operated just fine on the test bench. I replaced the blown fuse, plugged the unit in, and turned it on… and it worked just fine! So where do I go from here? How can it work fine at my location, but not at his?

At The Repair Bench - Continued on page 22

At The Repair Bench - Continued from page 21

I thought about all of the possibilities, and I came down to one basic series of facts. Current is a function of voltage and resistance. Excess current blows fuses. If the resistance is the same, as it must be because it is the same piece of equipment in either location, the only thing that could possibly cause the problem is that the voltage is sufficiently higher there than it is at my bench, high enough to cause excessive current to flow.

Figure 6 : Capacitors Removed For Testing

I called the owner, who by now had purchased a voltmeter (after our initial discussion when the fuse blew), and I learned that the source voltage at his receptacle was a whopping 246VAC. I then pulled out my two-phase 0-250VAC Variac and connected the amplifier through it, adjusting the voltage to the 245VAC level, and sure enough, it blew the fuse. OK - so what is actually wrong with the unit that this is happening?

The first thing that I did was to reconfigure the transformer jumpers to the 245VAC connections. I then changed the blown fuse again, and powered the unit up again, and it once again blew the fuse. Time for some detective work, but I figured that I would start with the low-hanging fruit.

I realized that I had changed out the pink resistors simply because they were there, but I never checked any of them for condition. I could not go back and do that now, because they had already been scrapped when the owner picked up the amplifier. In any event, I had no way of knowing which resistor was in shunt across which capacitor even if I did have the resistors, so I would need to test all of the capacitors one by one.

Figure 7 : Completed Repairs To Board

The capacitors are each installed to the power supply/SWR board by way of a pair of machine screws that go through the board and into threaded bosses on top of each of the capacitors. This made it very easy to remove the capacitors for testing - just remove the screws and lock washers, and the capacitors are out **(Figure 6).**

I got out my homebrewed CMS CCT-01 capacitor leakage and ESR tester, as well as a pair of uninsulated ring terminals that would fit the capacitor mounting screws. To test each capacitor, I temporarily installed the ring terminals to the threaded bosses on the capacitor, and then connected the test leads from the CCT-01 to those ring terminal barrels. Of the eight capacitors, C117 to C124, which are 210µF/450V aluminum electrolytic types, two of them were severely leaky and therefore failed their leakage tests. I ordered in a pair of replacement capacitors, and once again, I set the unit aside to wait for parts.

This time, it was only a two-day wait, as I paid for expedited shipping on this order. I wanted to make this owner happy if I could, so I picked up the tab for two-day freight. Once I had the capacitors in hand, it was simple to install them, and then to re-install the remaining six capacitors that had passed the leakage testing **(Figure 7).** I buttoned everything up, changed the fuse ***again***, and powered the unit up. This time, it worked as it was supposed to, and the fuse of course did not blow.

At The Repair Bench - Continued on page 23

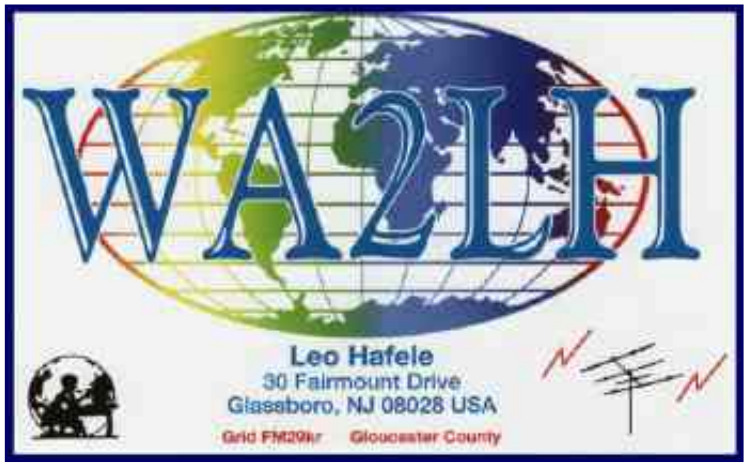
At The Repair Bench - Continued from page 22

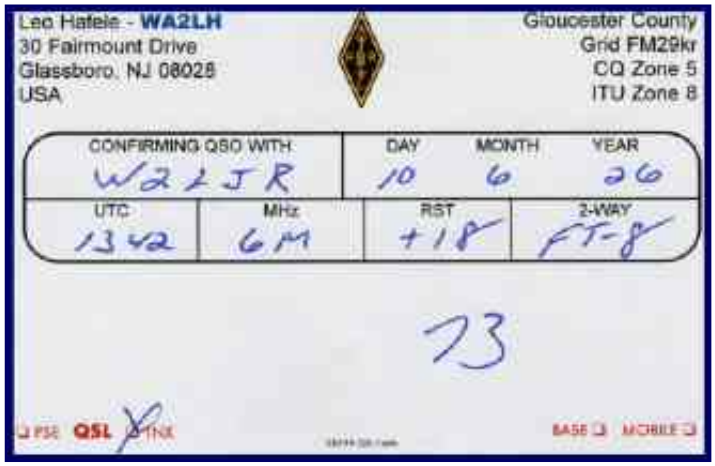
I once again connected to a radio and the 2500W dry dummy load, and then input a 70W RF signal. This resulted in a slightly lower output than I saw before, but it was still right around 800 watts into the dummy load. It was holding and working at the 245VAC supply voltage. I once again prepared the supplemental invoice, and returned the unit to its owner, together with two more spare 10-ampere fuses.

So… what went on here? Why did it blow the fuse at 245VAC supply voltage but not at 230VAC? If the capacitors were leaky enough, shouldn't they have caused the fuse to blow even at the lower supply voltage? This was a case of the increased supply voltage being just high enough to cause sufficient excess current to flow that the fuse threshold was exceeded, and the fuse blew. The owner, lacking an understanding of Ohm's law and its effect on current as the voltage goes up, was convinced that the problem was related to the transformer jumper settings. In reality, it was not at all related to that setting, but instead to the unusually high supply voltage at his bench receptacle. The additional 15VAC RMS, which comes out to 21.21VAC peak, or to 42.42VAC peak-to-peak, was definitely enough to cause enough additional current to flow through those leaky capacitors to cause the fuse to go open.

Sometimes, even when you think that the job is done, it turns out that it really is not. The lesson that I took away from this job is that if I ever have occasion to replace those pink resistors again, I will also, then and there, test the capacitors for leakage. It is a known fact that resistor failure there can and will cause capacitor damage. Not having any operational history first-hand from the owner, I should have been more suspicious about the condition of the amplifier in general. I will not make that mistake again.

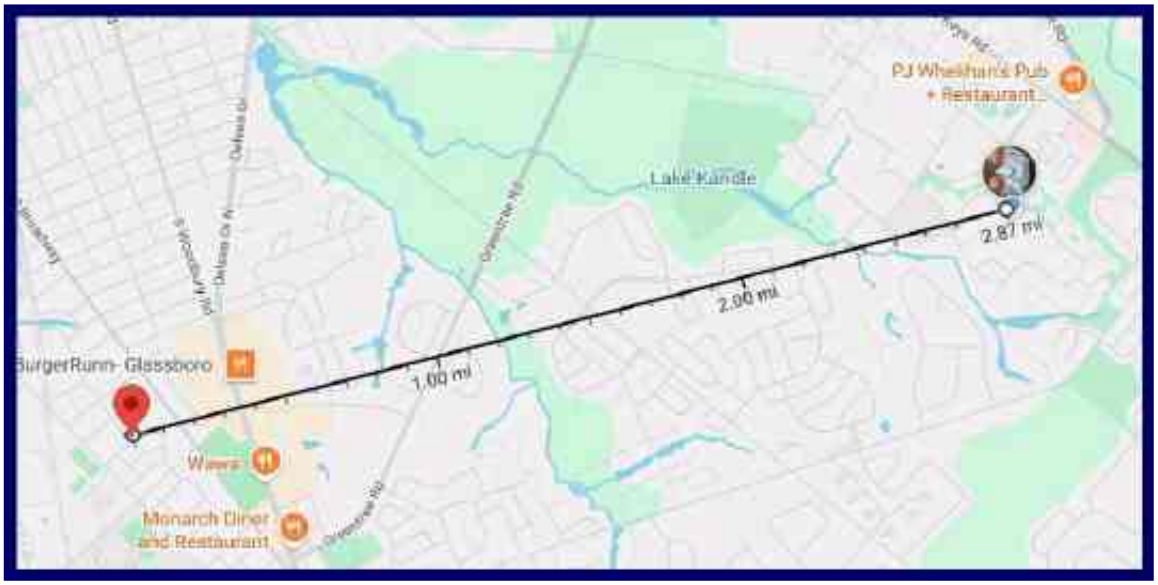
See you next month!





6 Meter FT8 QSO between Lee Hafele WA2LH and Lenny Rust W2LJR.

2.87 Miles!



New QRZ Award: USA250 (The 250th Anniversary of the United States of America)

In 2026, the United States of America will commemorate a historic milestone — the **250th anniversary of its founding**. To honor this once-in-a-lifetime event, QRZ is proud to introduce a special commemorative operating award: **USA 250**.

The **USA 250 Award** is available to amateur radio operators **worldwide** and is granted upon the successful confirmation of **250 two-way contacts with US-based amateur radio stations** made during the 2026 calendar year.

Award Requirements

To earn the USA 250 Award, operators must:

- Make **250 confirmed QSOs** with **US-based amateur radio stations** (operating from DXCC entities 291, 6, 110, 9, 103, 202 or 285)
- Contacts may be made on **any band** and **any mode**, Transmission may not make use of a relay, repeater or internet linking.
- Licensed operators **in any country** are eligible
- QSOs must take place **during the 2026 calendar year only**
- The operating window opens at **00:00 UTC on January 1, 2026**
- All contacts must be **confirmed on QRZ Logbook** (Imported LoTW confirmations accepted)
- The official rules can be found here **https://www.qrz.com/page/qrz-operating-awards**

Operating Period

January 1, 2026 00:00:00 – December 31, 2026 23:59:59 (UTC)

Call for Nominations for ARRL Director and Vice Director

Attention : Full ARRL members in the **ATLANTIC**, DAKOTA, DELTA, GREAT LAKES, and MID-WEST Divisions, you have the opportunity to choose your Division Director and Vice Director for 3-year terms on the ARRL Board of Directors beginning January 1, 2027. A voting Director is chosen by ballot by the full (licensed) ARRL members. Vice Directors, who serve in the absence of the Director at a Board meeting and succeed to the position of Director should a vacancy occur, are chosen at the same time. Elections are held in five divisions per year. Please see **ARRL News (7/1/2026 - https://www.arrl.org/news/call-for-nominations-for-arrl-director-and-vice-director-3?utm_source=Informz&utm_medium=Email&utm_campaign=ARRL&_zs=ANgkm&_zl=dNQq3)** for a recent story about the qualifications and eligibility of nominees, the nomination procedure, balloting, and a list of incumbent Directors and Vice Directors in the five divisions in which elections will be held this year.

Balloting

Official voting documents and instructions will be postal-mailed to members who are eligible to vote no later than October 19, 2026. For those with valid email addresses on file with ARRL, a follow-up email will be sent on October 26, 2026. Votes must be electronically cast by noon Eastern Time on Friday, November 20, 2026. The candidate receiving the most votes will be declared the winner that day.

Review Your Email Address

Members are encouraged to have a valid email address on file with ARRL to receive follow-up email and reminders to vote. Visit **www.arrl.org/myARRL** to review your ARRL account and contact Information (you must be logged in to the ARRL website to access your account). If you have multiple email addresses, ARRL will use the address marked “Main.” For assistance reviewing or updating your email address, please telephone Member Services at (860) 594-0200 during business hours.

Article Credit : The ARRL Letter for July 9, 2026 - www.arrl.org

NTS Resources

The National Traffic System® (NTS) is a network of Amateur Radio operators who move information during disasters and other emergencies. General messages offering well wishes also move through the NTS to help test the system and to help Amateur Radio operators build traffic handling skills. While the NTS is primarily set up to serve the United States and Canada, it is possible to move traffic internationally through the NTS through various local, regional, area, and international network connections.

- **NTS 2.0 : https://nts2.arrl.org**
- **NTS Manual : https://www.arrl.org/nts-manual**
- **NTS Methods and Practices Guidelines Table of Contents : https://www.arrl.org/table-of-contents-nts-methods-and-practices-guidelines**
- **Handling Instructions : https://nts2.arrl.org/hx-handling-instructions**
- **Numbered Texts : https://nts2.arrl.org/numbered-texts**
- **Form Encoding Rules for Form : https://nts2.arrl.org/form-encoding-rules-for-forms**

A *Club* that goes *above* and *beyond* for their communities and for Amateur Radio, is what defines a *Special Service Club (SSC).*

They are the leaders in their Amateur Radio communities who provide active training classes, publicity programs, and actively pursue technical projects and operating activities.

GCARC has been an ARRL Affiliated Club since February 4, 1960 and an SSC since April 2010.

GCARC VE Team : 2026 License Exam Monthly Summary

	Technician Class		General Class		Amateur Extra Class	
	Monthly	YTD	Monthly	YTD	Monthly	YTD
January	1	1	0	0	0	0
February	0	1	0	0	0	0
March	1	2	0	0	1	1
April	2	4	0	0	0	1
May	1	5	1	1	1	2
June	2	7	0	1	1	3
July	1	8	2	3	0	3
August						
September						
October						
November						
December						

Club Member DMR IDs

New Entries As Of 07/20/2026

Club Member	DMR ID
W2MMD Clubhouse	3198604
Michael Beach KF2EM	3222203
Jim Blose KD2TAT	3211628
Cole Bonner KE2GYA	3221097
Joshua Boylan KE2FSC	3216140
Alex Calabrese WA2ADS	3100583
Chuck Capasso WB2PGE	3169781
Todd Cecilio KA2YNT	3169458
Anthony Cerami N2OAC	3202759
Mark Clark N3QMJ	3102110
Norm Coltri K2NRC	3183851
Holden Correia-Fisher KD2JPV	3104911
Mike Covaleski N2MMC	3134855
Walter Coward WX2E	3166863
Doug Dersch KD2VQA	3193630
Daniel Devlin KC2GYU	3210633
Carmen DiCamillo KA3WYV	3221262
Thomas Distelcamp Sr KC2GYC	3110869
Glenn Dougherty N2YIO	3161836
Adam Duncan W3DUN	3202691
Herb Dyer KT2Y	3134907
Harry Elwell AD5TT	3128498
Bob Famiglio K3RF	3105945
Misael Fernandez Jr KE2EBL	3214756
Joseph Fisher KC2TN	3134720
James Foster W3JNF	3142117
Karl Frank W2KBF	3146716
Joseph Gadoury N2JJG (KE2AKT)	3196520
Glen Guenther KE2BUO	3202079
Melissa Guenther KE2BWZ	3202496
Gary Hewitt N2WHV	3134654
Paul Kaplan N2FOB	3134796
Chuck Lanard KD2EIB	3134298
Virginia Macrie KA2ZZA	3219039
Darren Malone KD2ALQ	3215227
Larry Mapow KX2M	3226460
Dean Marzocca N2TNN	3206232
Bill McCourt WF1L	3152173
Scott McNutt N3ADP	3189434

Club Member	DMR ID
Gary Mirkin WA3SVW	3165494
Paul Molinari N2MVK	3221792
Earl Moore KC2NCH	3210340
John Murrow KD2NHK	1134122
John Newman WB4YLM	3213273
Phil Nunzio WA3RGY	3134336
John O'Connell K2QA	3110610
Robert Pantazes W2ARP	3157208
Sheldon Parker K2MEN	3214037
Jonathan Pearce WB2MNF	3163415
Michael Pecorini K2MRP	3132996
Michael Pentimall KC3VTF	3203601
John Price III KD2QYC	3123583
Chris Prioli AD2CS	3195449
Nicholas Reigel KE2DCD	3128983
Michael Resnick N2WOQ	3215856
William Robinson KD2ANM	3134257
Frank Romeo N3PUU	3134935
Terry Rossi N2LQH	3183681
Len Rust III W2LJR	3186225
Len Rust IV K2LJR	3196243
Dave Sheppard W2PAX	3112666
Cory Sickles WA3UVV	1142052
James Simeone KC2AOF	3134848
Stan Slachetka WA2JRZ	3213904
Court Smith KD2SPJ	3186243
Jackson Snyder AI2D	3164371
Russell Stevenson KE2HVQ	3223941
David Swartout KC3TGB	3198155
Rabih Tannous W2VO	3224566
Anthony Vece W2AJV	3214797
Matt Wilson K2MFW	3134607
Bill Wood KD2OSJ	3197459
Jim Wright N2GXJ	3215168
John Zaruba Jr K2ZA	3134331

DMR Configuration Sequence

1. Obtain and Configure DMR ID :
   - https://www.radioid.net
2. Download Contact List :
   - http://www.dmrcontacts.com
3. Identify Repeater or Hotspot :
   - https://www.repeaterbook.com
4. Define Talk Groups
   - Numerical ID
   - Text Name

https://brandmeister.network/?page=talkgroups

5. Create Channel
   - Select Number
   - Assign Name
   - Select DMR ID
   - Assign Frequency
     - Transmit
     - Receive
     - Bandwidth
   - Power
   - DMR Mode (Simplex/Repeater)
   - TX Permit (Channel Free)
   - Assign Talk Group
   - Assign Color Code
     - Agreed Upon with Other Users
   - Assign Time Slot
   - Agreed Upon with Other Users
6. Create Zone
7. Add Channels to Zones
8. Configure Features
9. Upload Code Plug
10. Upload Contact List

If you recently changed your callsign, contact idteam@dmr-marc.net to have your DMR ID transferred to your new callsign.

For more information, DMR links, and W2LJR's DMR presentations, go to : https://gloucestercountyarc.weebly.com/dmr.html

8th Annual ARRL SNJ Section Convention
GLOUCESTER COUNTY AMATEUR·RADIO·CLUB NEW JERSEY
Presented By The
Gloucester County Amateur Radio Club
W2MMD
Celebrating Our 67th Year
HamFest.W2MMD.org
Open To The Public At 8:00 AM : Rain or Shine
48th Annual HamFest : Sunday, October 11, 2026

Gloucester County ARES News : August 2026

By Steven Farney W2SEF - sef001@comcast.net
Gloucester County Emergency Coordinator

Hi Folks.

On the last two ARES Sunday night nets I asked for participants ideas on training topics. There were many excellent suggestions including but not limited to :

1. Use Zoom for training but not on ARES net nights (Sunday)
2. VARA HF & VARA FM Link Test including peer-to-peer communications
3. Send Winlink transmissions without using a repeater (see #2)
4. Explain and understand (include a copy) how to use the ITU Phonetic Alphabet
5. ICS-213 Voice/Manual Relay Drills
6. Send ICS-213 via Winlink
7. Explain the best cadence to use when relaying an ICS-213 (best talking speed so the recipient can easily copy transmission)

I have several more pages (10 altogether) of suggestion for ARES training topics. Some of the things suggested I don't understand what they are or how to train on the topic. Looks like I have some reading to do.

Watch for the **S**imulated **E**mergency **T**raining (SET) schedule in the fall.

73 for now,
Steve W2SEF GCEC

ARES Resources (Updated as of January 2026)

ARRL ARES Registration Form July 2004: https://bit.ly/3Ae2pCf
ARES Manual March 2015 [PDF] : https://bit.ly/3iUhJLQ
ARES Field Resources Manual August 2019 [PDF] : https://bit.ly/4qDmOWb
ARES Standardized Training Plan Task Book July 2024 Ver. 3.0 [Fillable PDF] : https://bit.ly/4dToEes
ARES Standardized Training Plan Task Book July 2024 [Word] : https://bit.ly/4heLXSU
ARRL ARES Plan July 2025 : https://bit.ly/4pOZwwl
ARRL Emergency Communications Training : http://bit.ly/3J2gMMf
FEMA 2023 National Preparedness Report : https://bit.ly/3YrPWnY
Southern New Jersey Section Emergency Operations Plan 2023.PDF : https://bit.ly/3YqMdHb
ARRL ARES Monthly Newsletters : https://bit.ly/408OV5d

The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an amateur radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable but is not a requirement for membership.

If you are interested in learning more about the Gloucester County ARES Program or becoming an ARES member, please contact Steve Farney W2SEF at sef001@comcast.net.

3 Front Street
Hancock's Bridge, NJ 08038
https://dep.nj.gov/parksandforests/state-park/hancock-house/

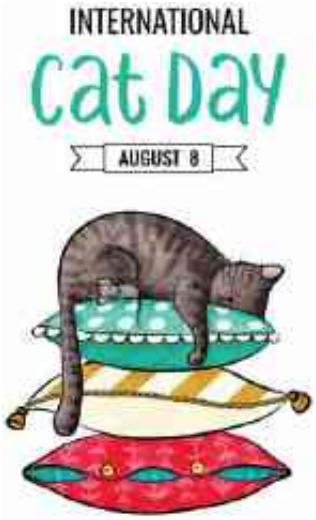
- Saturday August 1
- Set up 8 am
- Operation from 9 am to 4 pm
  - Members can attend any time during the day
  - Weather monitors
  - Parking available on Front and New Streets
- SSB/CW/FT8
- Front lawn area
- Tours of the house and cabin
- Demonstrations

454 Fort Mott Road
Pennsville, NJ 08070
https://dep.nj.gov/parksandforests/state-park/fort-mott-state-park/

- Historic Soldiers Weekend https://soldiersweekend.com/
- Saturday September 26 & Sunday September 27
- Special event call **W2M**
- Operation during both days of the event
- SSB/CW/FT8
- Bunker in the central portion of the event area
- Coordination with Fort Mott staff on set up
- Re-enactors and special demonstrations
- Ferry to historic Fort Delaware on Pea Patch Island and to Delaware City, Delaware

CPOTA - August 8, 2026???

By Jim Wright N2GXJ



Cat Pictures On The Air! I kid you not. Taking special mode operating on a new adventure, I saw this radio event advertised encouraging people to send cat picture themed CQ and responses using slow-scan television (SSTV) HF transmissions for 1 day on August 8th, International Cat Day. Look for them on the primary international standard Ham SSTV frequency of 14.230 MHz, and monitor or jump in if you've the software loaded to play (e.g. MMSSTV). Event "rules" posted at : **https://cpota.app**.

Yes, we've chased the original 13 Colonies, museum ships, and special event stations set up along the original Route 66.

Now it's cat pictures!

Thanks for keeping the hobby fun! Top 5 scorers will be displayed at : **https://www.qrz.com/db/PD6MEOW**.

Word to the Wise

Quantity Beats Quality

In the world of contesting, quantity beats quality when it comes to skills development. The easiest way to improve your skills is to just do more contests. It can be easy to decide not to do a contest for whatever reason. But choosing to just get on the air, even for only a couple hours or a hundred QSOs, will snowball over time and make you a better operator.

Thanks For The Club QSO Contact!

By Jim Wright N2GXJ

To help celebrate the ARRL's Year of the Club initiative this year, an event was organized and held this past June called the "Club QSO Party". Of course, your Club, GCARC, joined in!

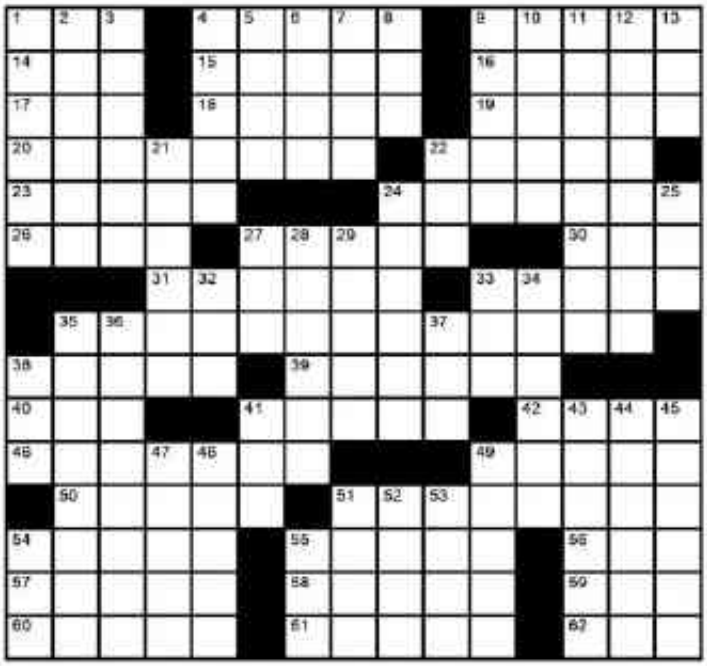
GCARC participated under the callsign "W2MMD/67", with the /67 added to our regular callsign as a fun way to celebrate the number of years since our Club was formed. As a fun event, the event encouraged Club membership participation, allowing repeater contacts, including via EchoLink (unusual), and factored in the percentage of Club members participating as a score multiplier (also unusual).

With **Michael Pentimall KC3VTF** on HF from the Club station, and myself **Jim Wright N2GXJ** on Club's repeater on VHF, in the end we made about 75 contacts as W2MMD/67, of which 7 were with other club stations participating in the event, including W8WE/93 (via our repeater on FM) from Ohio. Of the 47 contacts we made to those that identified as being a member of any radio club, 38 of those were to members of our own Club, which was great! This included several members of our Club who would not normally have been able to participate if not for EchoLink. Thank you everyone who called in!

Speaking of EchoLink on your cell phone, here's an endorsement for having it available, even if you don't use it all the time. It is a great tool to have. And it really is easy as a licensed ham to set up. Just install the app on your phone, connect to W2MMD-R to try it once, and then it is there when you need or want to use it. Works great for our weekly nets, when you are in area, and out of area too. If having any problems, just reach out, and we'll figure it out and get it working together.

by Chris Codella, W2PA 1/10/2008

Chasing DX



Crossword Puzzle courtesy of https://www.w2pa.com/Home/articles/crossword-puzzles

Across

1. Old freq. units

4. HH-land

9. Fourteen ____ (weight)

14. Enable, as a weapon

15. Over

16. Signs

17. Expected

18. John Glenn's ride

19. "that ____ for the course"

20. With 22, 55, 56, and 61 across - What you collect for 35 across

22. See 20-across

23. The 18 and 21 MHz bands?

24. "Is that really necessary?"

26. New fangled rigs (abbr.)

27. Work on GUIs and others

30. This began, the July after 24-down

31. An ARRL section official, in I-land (abbr.)

33. All but KH6 and KL7

35. You need more than 999 for this award

38. Power units

39. One of the things Elmers do

40. School org.

41. One place where the DX might be listening?

42. Heading 180 from NC

46. 9H operator, probably

49. Early radio parts manufacturer

50. 1960's TV host, with Martin

51. Open wire (line)

54. Equipment reviewer, sometimes

55. See 20-across

56. See 20-across

57. What many towers are made of

58. The word that explains a UK prefix assignment

59. Digital ckt. family

60. Hamshacks, on Field Day

61. See 20-across

62. Beam heading to work PY from W2

Down

1. "... no space ___."

2. Trimmed, as a dipole (if not a bush)

3. It moves with a signal

4. What an amp also does in the shack

5. Prefix with VOX

6. What an un-keyed transmitter is

7. Some are green, some black, some orange

8. Gives a callsign

9. Nickels and dimes

10. Org. in charge of 43-down

11. What a DXPedition station spends most of the time doing

12. Non-digital, in G-land

13. DOS background job (remember?)

21. Non-ham pesky visitor on FD

22. C in F-land

24. A peak year in cycle 19

25. Some Ukraine prefixes

27. It's between the DSP and the speaker

28. How some DF antennas look

29. Listings for selling small VHF xcvrs

32. MHz predecessor

33. Those in Chile

34. House current, familiarly, if imprecise

35. Like 38-down, but for (other) digital modes

36. Keeps your rig's rock steady

37. A good signal report, in ancient Rome

38. Speed on CW

41. Biggest non-amateur user of radio in the early days

43. Awards for performances by hams in space?

44. Warm tubes and solder resin, among others

45. Pamper

47. What a birdie in your RX sounds like?

48. G-land noblemen

49. Tower-top antenna supports

51. Repeated, it's part of FO0-land

52. 7O city

53. The part of a part you solder

54. Use 3-Down to give out one of these

55. Cute 1960's mobile hamshack

Answers on Page 46

2024-2028 Element 4 Amateur Extra Class License Question Quiz

This month we continue with Subelement E6 Circuit Components (6 exam questions - 6 groups).
(***Answers on last page***)

E6C01
What is the function of hysteresis in a comparator?
A. To prevent input noise from causing unstable output signals
B. To allow the comparator to be used with AC input signals
C. To cause the output to continually change states
D. To increase the sensitivity

E6C02
What happens when the level of a comparator's input signal crosses the threshold voltage?
A. The IC input can be damaged
B. The comparator changes its output state
C. The reference level appears at the output
D. The feedback loop becomes unstable

E6C03
What is tri-state logic?
A. Logic devices with 0, 1, and high-impedance output states
B. Logic devices that utilize ternary math
C. Logic with three output impedances which can be selected to better match the load impedance
D. A counter with eight states

E6C04
Which of the following is an advantage of BiCMOS logic?
A. Its simplicity results in much less expensive devices than standard CMOS
B. It is immune to electrostatic damage
C. It has the high input impedance of CMOS and the low output impedance of bipolar transistors
D. All these choices are correct

E6C05
Which of the following digital logic families has the lowest power consumption?
A. Schottky TTL
B. ECL
C. NMOS
D. CMOS

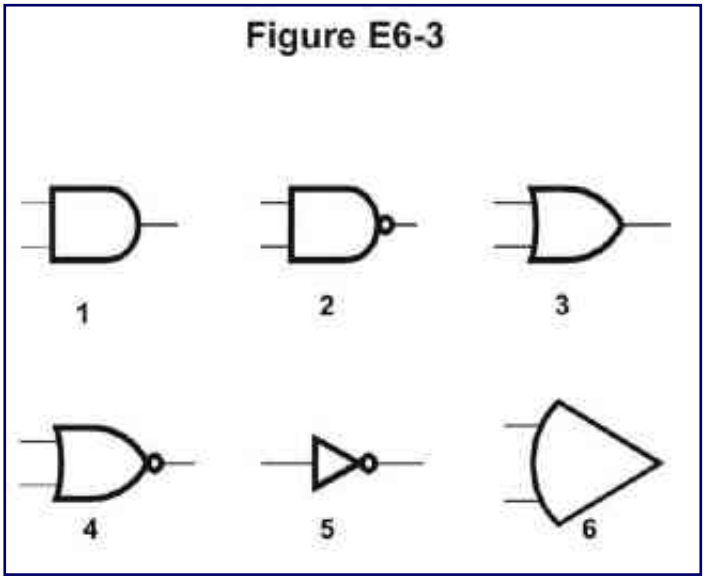
E6C06
Why do CMOS digital integrated circuits have high immunity to noise on the input signal or power supply?
A. Large bypass capacitance is inherent
B. The input switching threshold is about twice the power supply voltage
C. The input switching threshold is about half the power supply voltage
D. Bandwidth is very limited

E6C07
What best describes a pull-up or pull-down resistor?
A. A resistor in a keying circuit used to reduce key clicks
B. A resistor connected to the positive or negative supply used to establish a voltage when an input or output is an open circuit
C. A resistor that ensures that an oscillator frequency does not drift
D. A resistor connected to an op-amp output that prevents signals from exceeding the power supply voltage

Element 4 Amateur Extra Class Quiz - Continued on page 33

Element 4 Amateur Extra Class Quiz - Continued from page 32

E6C08
In Figure E6-3, which is the schematic symbol for a NAND gate?
A. 1
B. 2
C. 3
D. 4



E6C09
What is used to design the configuration of a field-programmable gate array (FPGA)?
A. Karnaugh maps
B. Hardware description language (HDL)
C. An auto-router
D. Machine and assembly language

E6C10
In Figure E6-3, which is the schematic symbol for a NOR gate?
A. 1
B. 2
C. 3
D. 4

E6C11
In Figure E6-3, which is the schematic symbol for the NOT operation (inversion)?
A. 2
B. 4
C. 5
D. 6

End-Fed Half–Wave Antenna Build

Saturday, July 18th, was the second session of the popular end Fed Half-Wave Antenna build presented by Chris Prioli, AD2CS. Photos and notes by Mike Resnick, N2WOQ

Chris modeled this project from a similar kit offered by ARRL. It was redesigned to be more robust by using larger gauge wire and better quality toroids, mounting boards, and case. Builders could choose their power level by using addition toroids.

Chris' instruction manual was set up with the opening page listing the parts supplied with the kit. By checking off the supplied material, the builder doubled checked the content count and allowed correlation between the description and the actual item.

Chris is demonstrating the proper method of winding the 14 gauge insulated wire around the toroid.

Everyone was deeply involved with their project. I almost had to shout to get attention for a quick group shot.

I'm going to get the kinks out of this wire!

The one on the right is definitely better!

K9RS New ARRL Atlantic Division Vice Director

ARRL President Rick Roderick K5UR, has appointed **Ray Sokola K9RS**, of Wilmington, Delaware, as **Vice Director** for the **ARRL Atlantic Division**. The appointment fills the vacancy created in January when former Vice Director Marty Newingham, AG3I, assumed the office of Atlantic Division Director (see The ARRL Letter, January 29, 2026). Sokola will serve the remainder of a term that expires December 31, 2026.

The Atlantic Division includes the ARRL Sections of Delaware, Eastern Pennsylvania, Western Pennsylvania, Maryland-DC, Northern New York, Western New York, and Southern New Jersey.

From The Help Desk - August 2026

By Chris Prioli AD2CS - chris@ad2cs.com - www.ad2cs.com

Note : This is an ongoing series of related articles that will each take a look at some facet of radio selection, installation, or operation as suggested by actual questions received from Club members or other amateur operators.

Q : I am a bit confused about the entire topic of baluns and ununs. I hear about different ratios such as 1:1, 1:9, and 1:49. What is the difference between a balun and an unun, what is meant by these numeric ratios, and when and where is each one used?

A : To answer these questions, we must first make some simple explanations about some of the terminology used. To start, it must be understood that there are basically two types of feedlines - ***balanced feedlines*** and ***unbalanced feedlines***. Simply put and in general, a balanced feedline is one that is comprised of a pair of separate parallel conductors held apart at some fixed distance by insulation or else by structures used just for that purpose. Think of an ***Open Wire Line (OWL)*** such as a window line or a ladder line. The two parallel conductors of a balanced feedline carry equal and opposite signals, canceling out interference. An unbalanced line, on the other hand, is generally comprised of two (or more) conductors arranged on a common central axis, with one conductor at the center and each subsequent conductor forming a sleeve around that central conductor. In this case, think of a coaxial cable. Most often, the outer conductor is a braided shield net that is grounded in use.

Next up are the twin concepts of the ***balun*** and the ***unun***. In these designations, each syllable refers to the type of feedline (or system) to which that end of the device is meant to be attached. Thus, a ***balun*** is meant to serve as an interface between a ***bal***anced feedline or system and an ***un***balanced feedline or system. On the other hand, an ***unun*** is meant to do its job between two separate ***un***balanced feedlines or systems.

Naturally, the next question that arises is why do we need to have such an interface? Well, that answer ties in with those confusing ratios that were asked about. To understand this part of the explanation, it must be understood that there are differences in the ***characteristic impedance*** of each of the different types of feedlines in common use. For example, window line is typically at 450Ω impedance while ladder line is at 600Ω. Most coaxial cable used in radio is at about 50Ω. There are also differences in the impedances of the various antenna types to which these feedlines might be connected.

The typical input impedance of an end-fed random-length wire might be something on the order of a highly variable range, measuring anywhere from 20Ω to several thousand ohms (3kΩ or more) depending on the frequency and exact wire length. However, when the wire is cut to non-resonant lengths to avoid extreme impedance spikes, it typically exhibits a fluctuating impedance averaging around 200Ω to 600Ω. Because of this, a 9:1 unun is the standard choice to transform this impedance down to the 50 Ω level required by most modern ham radios when the antenna is fed via a coaxial cable.

Let's next consider the end-fed half-wave antenna. In this case, the typical input impedance is very high, ranging from 2kΩ to 4kΩ at its resonant frequencies. On average, it is widely calculated and assumed to be around 2,450Ω under normal operating conditions. Because modern transceivers require a 50 Ω load, a 49:1 (or sometimes even a 64:1) unun is used to step this high impedance down to a manageable level, again assuming that the feedline is a coaxial cable.

A third ratio was mentioned in the original question, that being the 1:1 ratio. A 1:1 unun is used when you need to isolate an unbalanced feedline from an unbalanced antenna or load while keeping the impedance exactly the same (50Ω to 50Ω). It acts primarily as a common-mode choke or line isolator rather than a traditional impedance transformer. The 1:1 unun serves well to block stray radio frequency (RF) currents from traveling down the outside of a coaxial cable shield and into the radio shack environment.

From The Help Desk - Continued on page 36

From The Help Desk - Continued from page 35

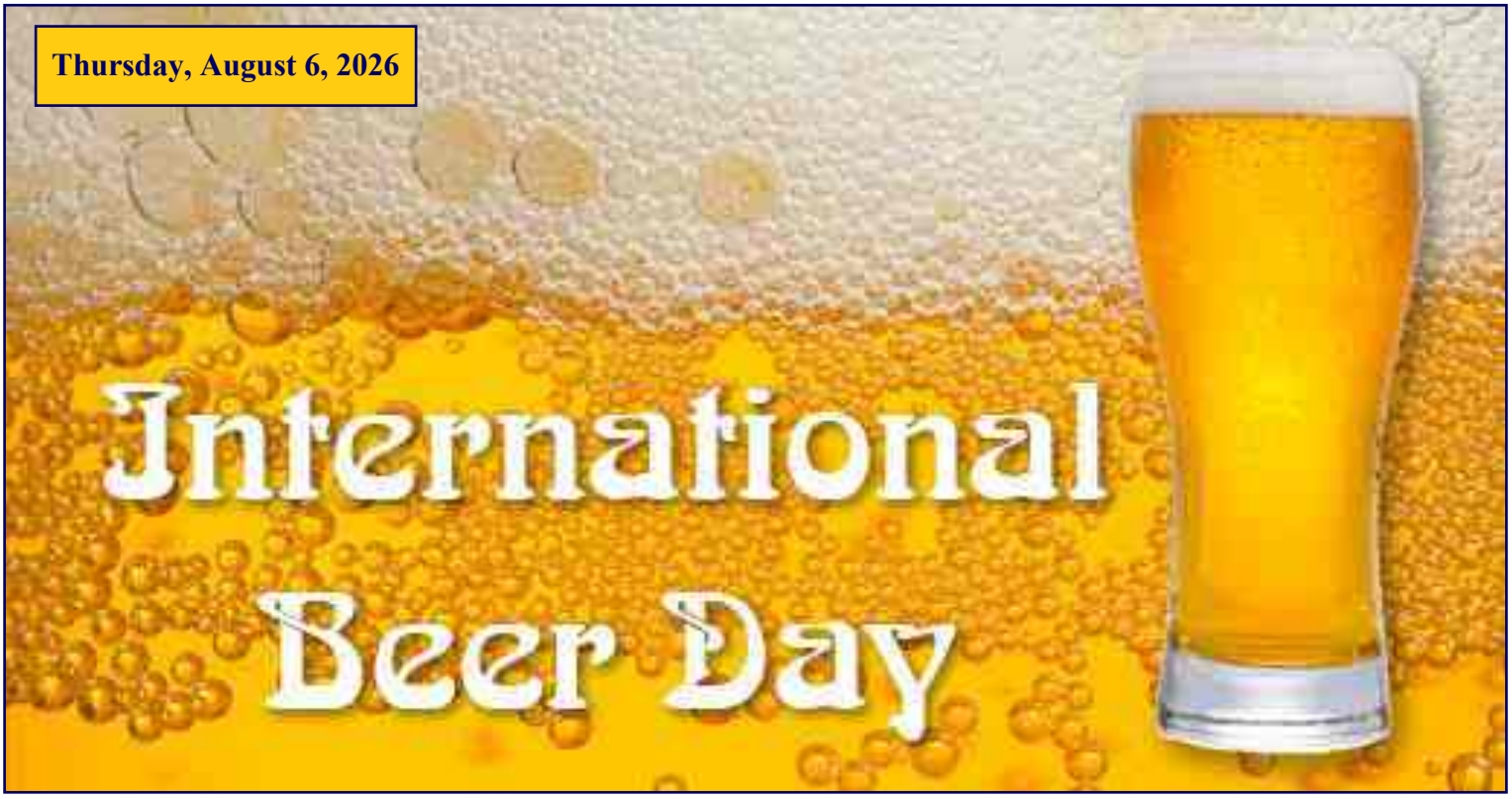
By now, it should be evident that these devices are really nothing more than impedance matching or isolation transformer devices (as in the case of the 1:1 unun), whose job is simply to provide an impedance match between two RF signal paths. Remember, it is only when the impedances are matched that we will achieve maximum signal transfer from one circuit or system to another.

The is a wide variety of such transformers available, with attendant differences in quality and in power-handling capability. For example, one popular kit from **HF Kits (https://www.hfkits.com)** and also offered by ARRL is a 1:49 transformer intended for use with an end-fed half-wave antenna. This unit is constructed using an FT240-43 toroid wound with a two-turn primary winding and a fourteen-turn secondary winding. This turns ratio of 2:14 simplifies to 1:7, which when applied to the impedance formula gives us the 1:49 impedance ratio. The impedance ratio is calculated as the square of the turns ratio. This unun uses a fairly lightweight 18AWG magnet wire for its windings, making its claim of 250W power capability rather questionable. Furthermore, the choice of a 2:14 turns count rather than a 3:21 turns count also reduces the performance of the antenna at the 80-meter end of the HF range.

Another popular unun is a 1:9 type that uses an eight-turn primary winding with a twenty-four-turn secondary winding of 15AWG magnet wire. The resultant 8:24 ratio, which simplifies to 1:3, produces the 1:9 impedance ratio needed for random-wire end-fed antennas. While this configuration forms a powerhouse matching device for the 160-meter to 40-meter range, at frequencies above the 40-meter band, it is extremely inefficient. This unun could be made to serve all bands by changing its winding scheme to either a 3:9 scheme or to a 4:12 scheme. The power-handling capability of this unun is significant, easily handling in excess of 500W in SSB modes. Its CW capability is slightly less, maxing out at about 400 watts.

I hope that these responses have helped you to understand the terminology and concepts behind the design, construction, and use of balun and unun matching transformer devices. This is a topic well worth understanding for all hams, but especially for those who are users of wire antennas.

See you next month!



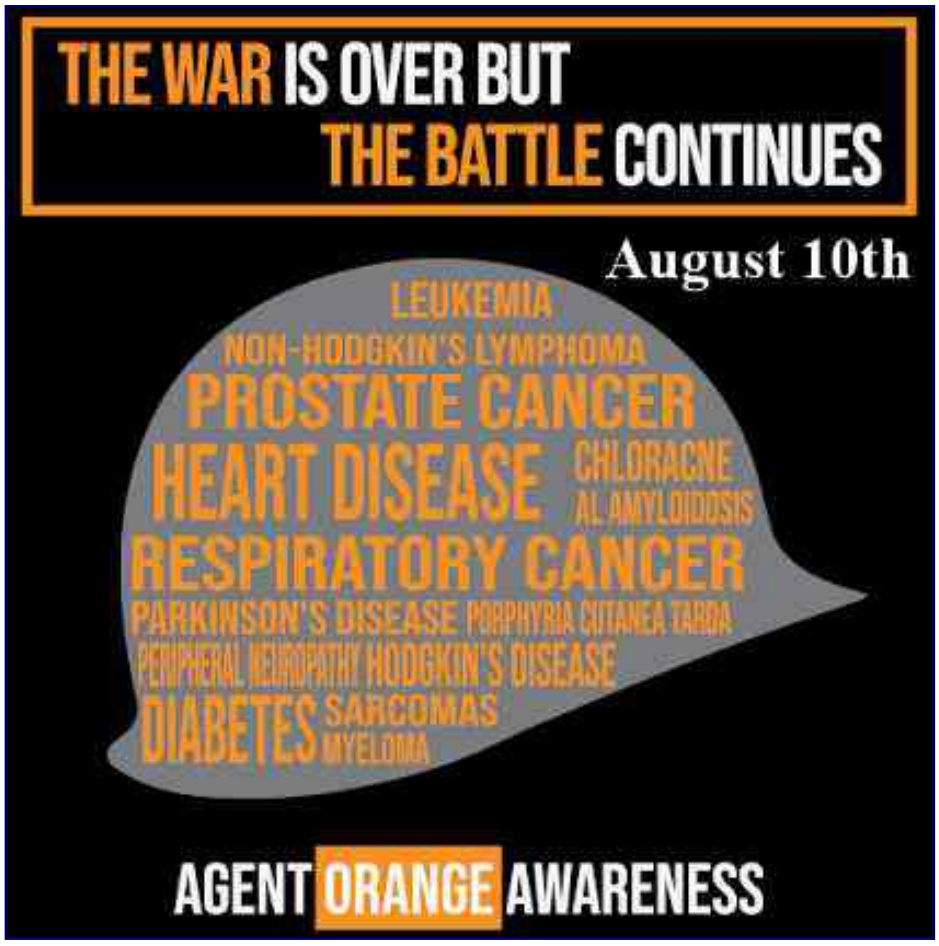
Volunteer Monitor Program Report - May 2026

The Volunteer Monitor (VM) Program is a joint initiative between ARRL and the FCC to enhance compliance in the Amateur Radio Service. This is the May 2026 activity report of the VM Program.

- A case of repeated violations of FT8 privileges by an operator in Arizona was referred to the FCC for further enforcement action. An Advisory Notice was issued to the operator for more than 100 violations of Technician privileges on 15 and 20 meters in March 2025. The operator had also been issued Advisory Notices in February 2024, and May and October 2025 for FT8 operation outside Technician privileges on 15 and 40 meters. All notices were ignored.
- Technician operators in Louisiana, Indiana, Connecticut, Maryland, Texas, and Michigan were issued Advisory Notices for FT8 operation on 15, 20, and 40 meters. Technicians have only CW privileges on 40 meters, and no privileges on 15 or 20 meters.
- A General-class operator in Georgia was issued an Advisory Notice for SSB operation on 14.222 MHz during a recent contest. Voice privileges on 20 meters for General-class operators start at 14.225 MHz.
- An Amateur Extra-class operator in Hawaii was issued an Advisory Notice for an SSB contact on 14.148 MHz during a recent contest. SSB privileges on 20 meters for Amateur Extra-class operators start at 14.150 MHz.
- An operator in Maryland was issued an Advisory Notice for an SSB contact on 7.123 MHz during a recent contest. Voice privileges start at 7.125 MHz on 40 meters.
- There was one meeting with the FCC Enforcement Bureau concerning enforcement issues on 7.200 MHz.

The totals for April 2026 monitoring were 1,028 hours on HF frequencies, and 1,231 hours on VHF frequencies and above, for a total of 2,259 hours.

Thanks to Volunteer Monitor Program Administrator Riley Hollingsworth, K4ZDH



Jersey String Band Update Report

By Glenn Dougherty N2YIO

Well it being so hot on July 4th, all three of our parades were cancelled and we lost a lot of money toward the 2027 New Years goal. The good news is we made some of that money back the two weeks before with our jobs in Frackville PA and our six hour trip to where they make Zippo Lighters in Bradford PA, so that helped a little bit.

On July 9th, the Band just got in the first of three Ocean City NJ Boardwalk parades. We made it from 14th Street to 10th Street and back just in time before the storm came rolling in. We will be back on the Boardwalk this time starting at 6th Street and hopefully meeting up with the Uptown String Band at 10th Street. Each band will play a couple of songs and maybe do a combined song have a few pictures taken with some of the fans, take a short break, then head back in the direction we started from.

We will be back on the Boardwalk again on August 25th, this time we will start at 14th Street and again meet up with the Greater Kensington String Band at 10th Street. Both parades will start at 7pm and we are done by 9pm. If you get a chance, stop down, they usually get large crowds and it is a good time.

On September 12th all 14 bands will be in North Wildwood for the String Band Association's Summer Mummers at Keenan's Irish Pub for a short four block parade to kick off the official start of the 2027 Mummer Season leading up to the 2027 New Years Day Parade.

Well that's all for now. We should be getting our New Years music sometime in August.

73, N2YIO Glenn

San Max Special Event : Aug 1-Aug 31, 0000Z-2359Z, 4A2MAX, Diamond, MEXICO. San Max XE Operators. 7.220, 14.180, 21.275, 28.440. Certificate & QSL. 4A2MAX San Max Special Event, 5914 San Bernardo Ave, Suite 4-135, Laredo, TX 78041-2506. This is an annual event that radio amateurs in Mexico use for the patron saint celebrations of Saint Maximilian Maria Kolbe, patron saint of radio amateurs.
https://www.qrz.com/db/4A2MAX

Maximilian Kolbe, SP3RN
Patron Saint of Amateur Radio Operators

Saint Maximilian Maria Kolbe
(January 8, 1894 - August 14, 1941) was a Polish Conventual Franciscan friar who volunteered to die in place of a stranger in the German death camp of Auschwitz, located in German-occupied Poland during World War II. He was active in promoting the veneration of the Immaculate Virgin Mary, founding and supervising the monastery of Niepokalanów near Warsaw, ***operating an amateur radio station (SP3RN)***, and founding or running several other organizations and publications. Kolbe was canonized on October 10, 1982 by Pope John Paul II, and declared a Martyr of charity. He is the ***patron saint of amateur radio operators***, drug addicts, political prisoners, families, journalists, prisoners, and the pro-life movement. John Paul II declared him "The Patron Saint of Our Difficult Century".

Gloucester County Amateur Radio Club
General Membership Meeting Minutes
Wednesday, July 1, 2026

Meeting opened @ 1900 Hours by President Jonathan Pearce WB2MNF with the Pledge of Allegiance to the Flag

Attendance :
- **In-person : 31**
- **Via Zoom : 13**

Visitors :
- **Sandy Stevenson**
- **Jim Paras N2AHT - via Zoom**

New Members :
- **Ted Cole AA4AZ, Pittsgrove, NJ**
- **Virginia Macrie KA2ZZA, Hammonton, NJ**
- **Charles Shorter Jr. W2JOY, Pemberton, NJ**

Announcements :
- July Tech Saturday is ***July 11th, not this Saturday***
- Clubhouse Closed for 4H Fair on 7/25/26
- Hancock House POTA Activity 8/1/26

Upcoming Clubhouse Events :
- Tech Saturday EFHW Antenna Build 7/11 & 7/18 @ 9AM
- BoD Meeting 7/15 @ 7PM
- Revolutionary War POTA Planning Meeting 7/22 @ 7PM (After Dinner at the Clubhouse).

Member current activities :
- **Chris Prioli AD2CS** described his experiments with QRP Labs WSPR beacons.

Business Meeting
- Motion to approve the minutes of the June 2026 business meeting, as published in CrossTalk, passed by voice vote of members present.

TREASURER'S REPORT :
- 2026 Year to Date Income and Expense
- Income : $11,643.30
- Expense : $5,786.74
- Net : $5,856.56

Remarks : Motion to approve Treasurer's report passed by voice vote of members present.

GLOUCESTER COUNTY AMATEUR RADIO FOUNDATION :
- Report : **John O'Connell K2QA** reported on Foundation finances.

CLUBHOUSE REPORT :
- Report : **Jon Pearce WB2MNF** reported on the chair donation from Temple University. **Al Arrison KB2AYU** discussed the status of on-going project and the impact of weather on them.

July 2026 General Membership Meeting Minutes - Continued on page 40

July 2026 General Membership Meeting Minutes - Continued from page 39

DX AND CONTESTS :

- Report : **Jon Pearce WB2MNF** reported about current contests.

PUBLIC SERVICE

- Report :

TECHNICAL COMMITTEE

- Report : **Jon Pearce WB2MNF** reported on using Club WSPR Beacon data to compare Field Day propagation vs. forecast.

OLD BUSINESS

- Motion to approve previous GM meeting minutes, as published in CrossTalk, passed by voice vote of members present.
- **Stan Slachetka WA2JRZ** provided an update on the 250th Revolutionary War Anniversary activities.

NEW BUSINESS

- **Bob Famiglio K3RF** made honorary GCARC member. Motion to confirm passed by voice vote of members present.
- **Jon Pearce WB2MNF** discussed the Club officer nomination and electoral process.

PRESENTATION " "Pizza!!!!" by All of Us

Meeting adjourned @ 1942 Hours.

Respectfully submitted,
John Zaruba K2ZA,
Recording Secretary

Gloucester County Amateur Radio Club
Board of Directors Meeting Minutes
Wednesday, July 15, 2026

Meeting opened @ 1900 Hours by President Jonathan Pearce WB2MNF

Attendance :

- **President Jon Pearce WB2MNF : Present**
- **Vice President Ron Block NR2B : Present**
- **Treasurer John O'Connell K2QA : Present**
- **Recording Secretary John Zaruba Jr K2ZA : Present**
- **Corresponding Secretary Mike Resnick N2WOQ : Present**
- **Director (2024-2026) Al Arrison KB2AYU : Present**
- Director (2024-2026) Bill Price NJ2S :
- **Director (2025-2027) Jeffrey Garth WB2ZBN : Present**
- **Director (2025-2027) Frank Romeo N3PUU : Present**
- **Director (2026-2028) Chris Prioli AD2CS : Present**
- **Director (2026-2028) James Wright N2GXJ : Present**
- Trustee (2023-2026) Sheldon Parker K2MEN :
- Trustee (2024-2027) Len Rust W2LJR :
- Trustee (2025-2028) Earl Moore KC2NCH :
- Trustee (2026-2029) Greg Ciraula K3GC :

New Member Applications :

- **Michael Canino KE2IXG Pittsgrove, NJ**
- **Dominic Francesconi KE2IWQ, Haddon Township, NJ**
- **Sandra Stevenson (No Call), Sewell, NJ**
- **Rabih Tannous W2VO, Cumming, GA**
- **Edward Warren KE2IVT, Atco, NJ**

Treasurer's Report :

- **Income : $13,504.64**
- **Expense : $9,102.70**
- **Net : $4,401.94**

Detailed financial statements are available for member review upon request. Treasurer's report approved by voice vote of Club officers present.

Committees :

- **Clubhouse : Chris Prioli AD2CS** discussed possible HF remote transceiver replacement/upgrade. Motion to purchase a new IC-7300 under infrastructure budget passed by voice vote of Club officers present.
- **Programs : Chris Prioli AD2CS** and **Jon Pearce WB2MNF** reported success of the recent Tech Saturday EFHW build project, session 2 on 7/18/26.
- **Education : Jon Pearce WB2MNF** reported on STEM Club Summer Camp activities.
- **Field Day : Ron Block NR2B** suggested that prior to next field day, call for utility mark outs.
- **Membership :** Motion to approve new members passed 4 to 3 by indication vote of Club officers present.
- **Hamfest : Ron Block NR2B** reported progress.

July 2026 Board of Directors Meeting Minutes - Continued on page 42

July 2026 Board of Directors Meeting Minutes - Continued from page 41

Old Business :

- June 2026 BoD meeting minutes approved by voice vote of Club officers present.
- **Chris Prioli AD2CS** inquired as to the status of the Tower Donor's plaque. **John Zaruba K2ZA** will make the plaque.

New Business :

- **Jon Pearce WB2MNF** reported on his recent Meshtastic presentation to DVRA (Delaware Valley Radio Association).
- **Ron Block NR2B** reported on a 4H request to utilize our space for overflow parking on 8/1/26.
- **Club Nets :**
  - **40 Meter Net :** 7.172 MHz (+/- 10 kHz) @ 1930 Hours
  - **2 Meter Nets :**
    - **June 2026 :**
      - ⇒ Tuesday : Average 8.4 check ins
      - ⇒ Thursday : Average 8.25 check ins

Meeting adjourned @ 1954 Hours

Respectfully Submitted,
John Zaruba Jr K2ZA
Recording Secretary

IARU HF World Championship 2026
July 11, 2026

Call : NE2R
Operator (s) : NE2R
Station : NE2R

Class : SOABCW LP
QTH : SNJ
Operating Time (hrs) : 6.0
Location : USA

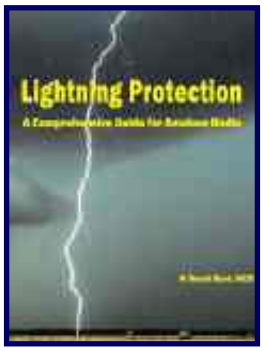
Summary :

Band	CW Qs	Ph Qs	Zones	HQ Mults
80 :	5	0	1	1
40 :	53	0	7	12
20 :	55	0	12	16
15 :	13	0	6	3
Total :	126	0	26	32

Total Score : 24,592

Club : Frankford Radio Club 012

Lightning Protection :
A Comprehensive Guide for Amateur Radio
Author : W. Ronald Block, NR2B
Contact : ron@wrblock.com
Website : www.wrblock.com



Station Signal Monitor Access Port Build

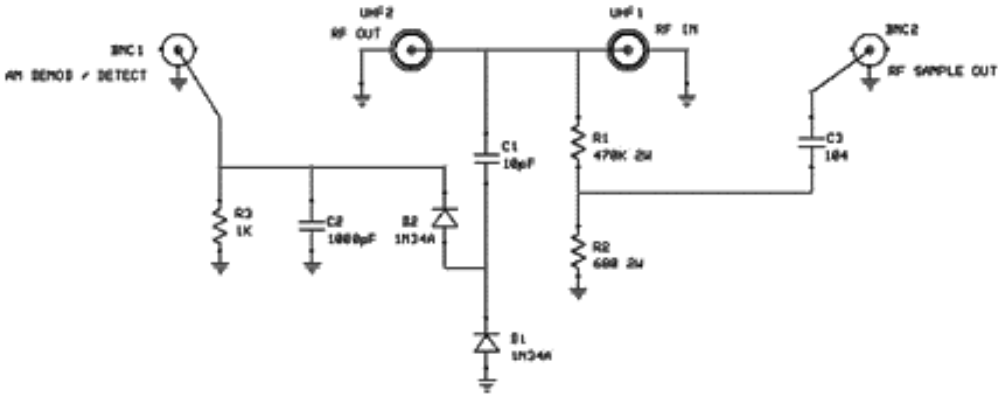
By Chris Prioli AD2CS - chris@ad2cs.com - www.ad2cs.com

I had occasion to want to look at a sample of the RF output signal envelope from a radio that I had on the bench recently, so I built a small adapter **(Figure 1)** that makes taking off an RF sample quite simple and straightforward. The device is based upon a pair of SO-239 jacks and a pair of 50Ω female BNC jacks, all of them panel-mount style, together with some very basic circuitry consisting completely of passive devices.

Figure 1 : Station Monitor Access Port Adapter

The schematic diagram of this sampler, shown in **Figure 2**, reveals just how simple this device really is. However, credit must be given when and where credit is due. In this case, I used a video by **Alan Wolke W2AEW** as the basis of my sampler. This video can be readily found online at : **https://www.youtube.com/watch?v=y4Zt_LJX1Tc**. My circuit is virtually identical to his, and of course it operates in the same manner.

Figure 2 : Schematic Diagram



The circuit is basically broken into two segments, a voltage divider that picks off a sample of the RF signal and AC-couples it to one of the two BNC jacks. This is, of course, one of the two outputs to an oscilloscope provided by this sampler. The second segment serves as a simple AM detector/demodulator and it in turn directs that detected output to the oscilloscope via the second BNC jack.

The first segment, comprised of resistors R1 and R2, and capacitor C3, directs a sample of the RF carrier to the oscilloscope port. The voltage divider formed by resistors R1 and R2 is set at a 470kΩ to 680Ω ratio, or effectively at a 691:1 ratio, and it will extract a signal that is about 0.15% of the actual carrier signal. As such, the 2-watt resistors used are certainly overkill, but I had them on hand and so I used them. The 0.1µF capacitor ensures AC coupling to the oscilloscope is preserved.

The second segment, comprised of the remainder of the components (D1, D2, C1, C2, and R3), serves to send a sample of the demodulated payload on the RF carrier to the oscilloscope. The 10pF capacitor C1 serves to AC-couple the demodulator input to the through-RF signal flowing from one SO-239 jack to the other. The demodulated signal is developed in the pair of 1N34A germanium diodes, and is expressed across the 1,000pF capacitor C2 with a 1kΩ bleed-off resistor across the capacitor. The signal presented to the BNC jack is a representation of the demodulated RF amplitude.

Station Signal Monitor Access Port Build - Continued on page 44

The actual through-RF path from the radio output to the load (antenna or dummy load) is by way of the pair of SO-239 jacks, with one being the RF-in jack and the other obviously being the RF-out. The jack types were chosen for convenience; N jacks could easily have been substituted for the SO-239's. Either way, the BNC jacks are ideal for the oscilloscope connections.

Figure 3 : Unit Wiring

The whole thing was assembled point-to-point directly to the working side of the jacks **(Figure 3)**, with a solid 10AWG wire being used as the through-RF bus. Because the finished unit would be installed into an enclosure that is simply an ABS tub with an aluminum plate as its top cover, I fabricated a shield out of copper-clad boards. This shield is tied to the cover plate and therefore to the braid sides of the connecting cables. When the unit is assembled, the shield tub **(Figure 4)** sits inside the plastic tub, and the cover sits down on the tubs, making contact with the shield tub. However, as already mentioned, a ground wire also positively bonds the shield tub to the cover plate.

Figure 4 : Shield Tub

This is a quick and easy way to be able to sample the AM RF output of any transmitter, but is especially suited to those used in the amateur radio discipline. Parts count is minimal, and almost any enclosure can be used. The build itself is simplicity personified, and took all of about twenty minutes, including drilling the holes. In my build, the most time was spent in building the shield tub.

All in all, this is a project that any ham should be able to take on, and it provides ready access to the RF signal for presentation and observation of that signal on the oscilloscope.

Join ARRL In Celebrating America's 250th - On The Air!

In 2026, ARRL is commemorating America's 250th birthday with a yearlong on-the-air celebration: the America250 Worked All States (WAS) Award. Running from January 1 through December 31, this special operating event challenges amateurs of all license classes to contact all 50 US states and confirm those QSOs via **ARRL's Logbook of The World (LoTW - https://lotw.arrl.org/lotwuser/default).** Modeled after the classic WAS Award, America250 WAS encourages activity across nearly every band - from LF through microwaves - and on CW, phone, and digital, culminating in a commemorative, frameworthy WAS certificate.

Participants can pursue America250 WAS in many ways, with endorsements recognizing achievements by band, by mode, Triple Play (all three modes), by satellite, by contacting ARRL Affiliated Club Stations in all 50 states, and by contacting W1AW/portable in all 50 states. Throughout 2026, the iconic W1AW call sign will be "loaned" to stations nationwide, activating each state twice during the year. All confirmations are handled through LoTW, making it easy to track progress and apply for awards and endorsements. Operations begin 0000z on Wednesday, and end on 2359z Tuesday (7 days total for each activation).

See the complete schedule at the QR Code or the following URL : https://tinyurl.com/America250Schedule

Regional Skywarn Websites For On-Line And In-Person Training Classes

Philadelphia/Mt Holly Skywarn : www.weather.gov/phi/skywarn
State College, PA Skywarn : www.weather.gov/ctp/skywarn
Pittsburgh, PA Skywarn : www.weather.gov/pbz/skywarn

Weather Information Nets & Frequencies

Hurricane Watch Net : www.hwn.org

- **Day Time : 14.325 MHz**
- **Night Time : 7.268 MHz**
- **Information : 14.300 MHz**

Local SKYWARN Frequencies :

- **Atlantic County : K2BR, 146.745 MHz (-) 146.2 Hz**
  - ◊ **Net Every Monday @ 1900 Hours**
- **Camden County : K2EOC, 146.895 MHz (-) 91.5 Hz**
  - ◊ **Net Every Thursday @ 2030 Hours**
- **Cumberland County : WA2WUN, 145.490 MHz, (-) 179.9 Hz**
  - ◊ **Net Every Monday @ 1930 Hours**
- **Gloucester County : W2MMD, 147.180 MHz (+) 131.8 Hz**
  - ◊ **Net Every Sunday @ 1930 Hours**
- **Salem County : N2KEJ, 146.625 MHz (-) 131.8 Hz**

What is a Skywarn Spotter?
By Jonathan Guseman KJ4ZWS, Warning Coordination Meteorologist
National Weather Service Central PA - https://www.weather.gov/skywarn

Spotters are our eyes/ears in the field! The NWS depends on our spotters to give us ground truth, therefore assisting in warning issuance and being heavily involved in reporting and documentation. As we issue warnings from inside of our offices, we greatly appreciate our spotters assisting us in the field and describing to us what is happening.

New Members Support Group & Discord Channel

- **Objective : To focus Club resources on the needs of newly licensed members**
- **Supported by "new_members" Discord Channel**

Additional Support :

- **Saturday Morning @ The W2MMD Clubhouse**
- **GCARC@MAILMAN.QTH.NET Club E-mail Reflector**
- **E-Mail President @ w2mmd.org**

To Be Added To The DX HONOR ROLL or Update Your Number, Please Contact Ernest Kraus KD2EAV meanddelcanotc@verizon.net

Name/Callsign	DXCC
Bill Grim W0MHK	352
Dave Strout W2YC	349
Edward De Fonzo W2DE	339
Darrell Neron AB2E	337
Bob Pantazes W2ARP	300
Gary Castellini N2IEC	294
Jim Wright N2GXJ	286
Sheldon Parker K2MEN	285
Vinnie Sallustio N4NYY	282
John Hill W2HUV	271
Tony Starr K3TS	250
Kenny Denson WB2P	248
Dennis Sandole K2SE	231
Bart Kleczynski AC2PT	180
Eric Morris N2BRJ	175
Art Strong KA0WS	169
Howard Marder WA2IBZ	161
Ben Johnson NE2R	153
Phil Nunzio WA3RGY	151
Steve Farney W2SEF	149
Marc Federici WM2Y	117
Chuck Capasso WB2PGE	104
Harry Strahlendorf W3DNQ	103
Jim Clark KA2OSV	87
Updated As Of 07/20/2026	

C	P	S		H	A	I	T	I		C	A	R	A	T
A	R	M		E	N	D	E	D		O	M	E	N	S
D	U	E		A	T	L	A	S		I	S	P	A	R
E	N	T	I	T	I	E	S		O	N	A	L	L	
T	E	E	N	S				M	U	S	T	Y	O	U
S	D	R	S		D	O	H	C	I			I	G	Y
			E	M	A	S	T	M		C	O	N	U	S
	D	X	C	C	C	H	A	L	L	E	N	G	E	
W	A	T	T	S		A	D	V	I	S	E			
P	T	A			U	P	S	I	X		T	O	S	C
M	A	L	T	E	S	E				M	E	S	C	O
	R	O	W	A	N		B	A	L	A	N	C	E	D
R	A	V	E	R		M	O	D	E	S		A	N	D
S	T	E	E	L		G	R	E	A	T		R	T	L
T	E	N	T	S		B	A	N	D	S		S	S	E

"The big thing about being in a club and being a "Ham" is to help each other when there is a need "
- W2SEF

Hmm...It's Saturday and you want to know if someone is at the Clubhouse? Why not call and find out!

W2MMD Clubhouse : 856-244-6914

August Birthdays

Congratulations To Our Members Who Are Celebrating A Birthday This Month

Bryan Bossle KE2APN
Richard Danner KE2FES
Harry Jackson WB2GSF (President 1982)
Jacques Latoison KC3VYU
Charles Lessley KC3TZR
Daniel McCormick III KD2TUS
Craig Metzger KE2GNU
Jonathan Pearce WB2MNF
(President 2023, 2024, 2025, 2026)
Adam Sigmund
Court Smith KD2SPJ
Harry Strahlendorf Jr W3DNQ
Leonid Surnin W2/UT5ZF
Bea Taylor KE2GLJ
Carl Wittig N2CRW

In Memoriam : August Birthdays

Paul Bergstrom N2GIB
James Bray Sr N2AKI
Edward Bubelis N2LCN
Vernon Byrd N2DRD
John Dilks III K2TQN
Edward Egolf WA2ZMS
Charles Emmel Sr KT2ZZ
Steven Fidler III N2GVR
Richard Fitch WA2YLC
Bruce Foster KD2ITE
Thomas Gordon Sr KB2GI
Paul Hart KD2WKL
Seth Horen K1LOM
John Koch Jr K2CR
John Lachenmayer KB2RGX
James Mollica Sr K2OWE
Curtis Myers K2CWM
Bruce Painter N2ASN
Charles Pennington K3NMF
Salvatore Scibilia WA2LKF
Donald Smith WB2ZJF
Rev James Thompson III N2EDK
Harry Wolf KC2THV

CrossTalk Submissions

This is your Club Magazine. Make use of it.

If you have stories or photos of your hobby that you would like to share with the Club, please do so! We will keep covering all of the GCARC events, but it is also nice to get those personal perspectives to include in every issue. Connecting through experiences is what makes the Gloucester County Amateur Radio Club a *REAL* Club.

All submissions, queries, comments, and editorials should be addressed to :
Jeff Garth WB2ZBN at djgrath1 <*at*> gmail <*dot*> com

Submission deadline for the September 2026 issue : Thursday, August 20, 2026

Club Website www.w2mmd.org
Club E-Mail Reflector : GCARC <*at*> Mailman <*dot*> QTH <*dot*> Net

DELAWARE VALLEY RADIO ASSOCIATION

OPEN HOUSE & PICNIC

Sunday, August 9, 2026

https://www.w2zq.com

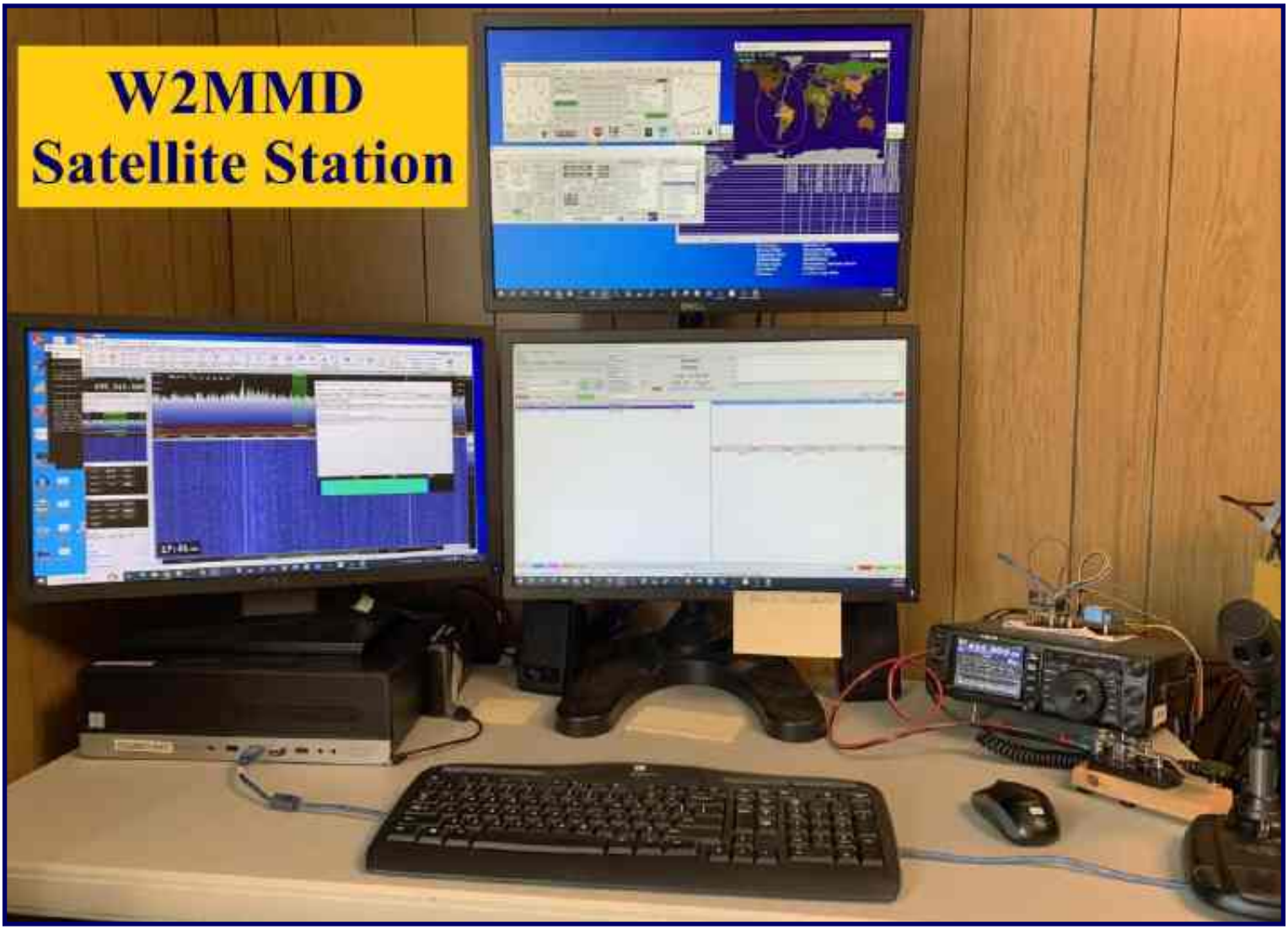
Full Sturgeon Moon : August 28, 2026 @ 1219 Hours.

Lake sturgeon, found in the Great Lakes and Lake Champlain, as well as in several rivers, were once much more abundant. These large (some more than 6 feet long!) migratory fish were an important staple for Native American peoples living in the area. Captain Jonathan Carver came across this term for the lunar month during his travels in the 1760s. Flying Up Moon is a Cree term describing the time when young birds are ready to fly. Corn Moon (Algonquin, Ojibwe), Harvest Moon (Dakota), and Ricing Moon (Anishinaabe) signify the time to gather mature crops. The Assiniboine people named this period Black Cherries Moon, referring to when chokecherries were ripe. The Tlingit called this time of season the Mountain Shadows Moon.

Old Farmer's Almanac - www.almanac.com

Another FREE Clubhouse Resource Available To All Club Members

Training May Be Required : See Jon Pearce WB2MNF For Details



Plastic Ground Rods

No more rusting or corroded ground rods! Use these plastic ground rods that will last many lifetimes!

- Very flexible and easily conforms to rocks, obstructions, etc. when driving into ground. They just bend around the rocks!
- No corrosion!
- No dissimilar metal issues...because it isn't metal!
- Low conductance.
- Impervious to red ants.

Announced DX Operations : August 2026
www.ng3k.com/Misc/adxo.html
From The Shack of Bill Feidt NG3K : www.ng3k.com

2026 Jul26	2026 Aug09	**Trinidad & Tobago**	**9Y4**	LoTW	OPDX 20260709	By 8P6PE as 9Y4/8P6PE fm Chaguanas; HF; several POTA activations; end-fed long wire, Buddipole; QSL via eQSL, QRZ
2026 Jul26	2026 Aug06	**South Cook Is**	**E51CZZ**	IK2DUW	OPDX 20260317	By ZL4CZ fm Rarotonga I; HF; SSB
2026 Jul30	2026 Aug07	**Tuvalu**	**T2JK**	LoTW	DXW.Net 20260704	By JK1JXZ fm Funafuti; 80-6m; QRV after 5pm Tuvalu time weekdays, all day weekends; may extend stay until Aug 14
August						
2026 Aug05	2026 Aug10	**Bahamas**	**C6AYM**	LoTW	K9GY 20260315	By K9GY; 80-6m; CW; QRV for WAE CW
2026 Aug05	2026 Aug12	**Aland Is**	**OH0ERF** NEW	DK0ERF	OPDX 20260714	By DL1TAM DL5AXI DL5ARI DO6KD DL1STL DG0OCG; 160-10m, perhaps 6m; CW SSB FT8; holiday style operation
2026 Aug06	2026 Aug10	**Aruba**	**P40AA**	DL4MM	DL4MM 20260630	By DL4MM; 160-6m; CW SSB + digital; QRV for WAEDC Contest (SO HP)
2026 Aug15	2026 Aug16	**Namibia**	**V55LH**	LoTW	TDDX 20260617	By V51Q V51F V51WO; 80-10m; SSB CW FT8
2026 Aug15	2026 Aug22	**Market Reef**	**OJ0**	LoTW	OH6BG 20260711	By OH3JR as OJ0JR and OH2YL as OJ0YL; 80-10m; CW SSB FT8; QSL via Club Log OQRS
2026 Aug15	2026 Aug29	**Franz Josef Land**	**RI1FJL**	LoTW	PA3CWN 20260429	By R7AL RW8A RW9JZ UA3QLC UA4Z RA4DX; 160-10m; CW SSB
2026 Aug18	2026 Aug29	**Canary Is**	**EA8**	IZ1GDB (B/d)	OPDX 20260620	By IZ1GDB as EA8/IZ1GDB fm Mogan, Gran Canaria; 40 20 15 10m
2026 Aug25	2026 Oct10	**Namibia**	**V51WH**	DK2WH	DXW.Net 20260705	By DK2WH fm nr Omaruru; 160-6m, incl 60m; QRV as V55Y in CQWW RTTY Contest
2026 Aug28	2026 Aug30	**Liechtenstein**	**HB040A**	LoTW	DXW.Net 20260710	By Liechtenstein Radio Amateur Association ops; HF; SSB FT8 FT4

Also for your convenience, there is a direct link to NG3K on our website. Click on the NG3K DX Page.

August 2026 Contest Calendar - WA7BNM Contest Calendar : www.contestcalendar.com

August 2026	
10-10 Int. Summer Contest, SSB	0001Z, Aug 1 to 2359Z, Aug 2
European HF Championship	1200Z-2359Z, Aug 1
North American QSO Party, CW	1800Z, Aug 1 to 0559Z, Aug 2
ARRL 222 MHz and Up Distance Contest	1800Z, Aug 1 to 1800Z, Aug 2
Hemus VHF Contest - 144 MHz	0600Z-1359Z, Aug 2
SARL HF Phone Contest	1400Z-1700Z, Aug 2
K1USN Slow Speed Test	0000Z-0100Z, Aug 3
ICWC Medium Speed Test	1300Z-1400Z, Aug 3
OK1WC Memorial (MWC)	1630Z-1729Z, Aug 3
ICWC Medium Speed Test	1900Z-2000Z, Aug 3
ARS Spartan Sprint	0000Z-0200Z, Aug 4
Worldwide Sideband Activity Contest	0100Z-0159Z, Aug 4
ICWC Medium Speed Test	0300Z-0400Z, Aug 4
ZL Sprint	0800Z-0829Z (CW), Aug 4 and 0830Z-0859Z (SSB), Aug 4 and 0900Z-0929Z (FT4), Aug 4
Tuesday's Telegraphy Contest	1930Z-2020Z, Aug 4
Phone Weekly Test	0230Z-0300Z, Aug 5
A1Club AWT	1145Z-1300Z, Aug 5
CWops Test (CWT)	1300Z-1400Z, Aug 5
VHF-UHF FT8 Activity Contest	1700Z-2100Z, Aug 5
Mini-Test 40	1700Z-1759Z, Aug 5
Mini-Test 80	1800Z-1859Z, Aug 5
CWops Test (CWT)	1900Z-2000Z, Aug 5
VHF-UHF FT8 Activity Contest-NA	0000Z-0500Z, Aug 6
Walk for the Bacon QRP Contest	0000Z-0100Z, Aug 6 and 0200Z-0300Z, Aug 7
CWops Test (CWT)	0300Z-0400Z, Aug 6
CWops Test (CWT)	0700Z-0800Z, Aug 6
NRAU 10m Activity Contest	1700Z-1800Z, Aug 6 (CW) and 1800Z-1900Z, Aug 6 (SSB) and 1900Z-2000Z, Aug 6 (FM) and 2000Z-2100Z, Aug 6 (Dig)
SKCC Sprint Europe	2000Z-2200Z, Aug 6
QRP Fox Hunt	0100Z-0230Z, Aug 7
NCCC FT4 Sprint	0100Z-0130Z, Aug 7
Weekly RTTY Test	0145Z-0215Z, Aug 7
NCCC Sprint	0230Z-0300Z, Aug 7
K1USN Slow Speed Test	2000Z-2100Z, Aug 7
WAE DX Contest, CW	0000Z, Aug 8 to 2359Z, Aug 9
ARRL EME Contest	0000Z, Aug 8 to 2359Z, Aug 9
SKCC Weekend Sprintathon	1200Z, Aug 8 to 2400Z, Aug 9
YB Bekasi Merdeka Contest	1200Z, Aug 8 to 1159Z, Aug 9
Maryland-DC QSO Party	1400Z, Aug 8 to 0400Z, Aug 9
Kentucky State Parks on the Air	1400Z-2200Z, Aug 8
SARL HF Digital Contest	1300Z-1600Z, Aug 9
4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Aug 10
K1USN Slow Speed Test	0000Z-0100Z, Aug 10
ICWC Medium Speed Test	1300Z-1400Z, Aug 10
OK1WC Memorial (MWC)	1630Z-1729Z, Aug 10
ICWC Medium Speed Test	1900Z-2000Z, Aug 10
Worldwide Sideband Activity Contest	0100Z-0159Z, Aug 11
ICWC Medium Speed Test	0300Z-0400Z, Aug 11
ZL Sprint	0800Z-0829Z (CW), Aug 11 and 0830Z-0859Z (SSB), Aug 11 and 0900Z-0929Z (FT4), Aug 11
DARC FT4 Contest	1900Z-2029Z, Aug 11
Tuesday's Telegraphy Contest	1930Z-2020Z, Aug 11
NAQCC CW Sprint	0030Z-0230Z, Aug 12
Phone Weekly Test	0230Z-0300Z, Aug 12
MMMonVHF/DUBUS 144 MHz Meteorscatter Sprint Contest	0700Z, Aug 12 to 0700Z, Aug 14
A1Club AWT	1145Z-1300Z, Aug 12
CWops Test (CWT)	1300Z-1400Z, Aug 12
VHF-UHF FT8 Activity Contest	1700Z-2100Z, Aug 12
Mini-Test 40	1700Z-1759Z, Aug 12
Mini-Test 80	1800Z-1859Z, Aug 12
CWops Test (CWT)	1900Z-2000Z, Aug 12
VHF-UHF FT8 Activity Contest-NA	0000Z-0500Z, Aug 13
CWops Test (CWT)	0300Z-0400Z, Aug 13
CWops Test (CWT)	0700Z-0800Z, Aug 13
QRP Fox Hunt	0100Z-0230Z, Aug 14
NCCC FT4 Sprint	0100Z-0130Z, Aug 14
Weekly RTTY Test	0145Z-0215Z, Aug 14
NCCC Sprint	0230Z-0300Z, Aug 14
K1USN Slow Speed Test	2000Z-2100Z, Aug 14
SARTG WW RTTY Contest	0000Z-0800Z, Aug 15 and 1600Z-2400Z, Aug 15 and 0800Z-1600Z, Aug 16
Russian District Award Contest	0800Z, Aug 15 to 0800Z, Aug 16
ARRL 10 GHz and Up Contest	0900Z, Aug 15 to 0759Z, Aug 17

August 2026 Contest Calendar - Continued on page 52

August 2026 Contest Calendar - Continued from page 51

Keyman's Club of Japan Contest	1200Z, Aug 15 to 1200Z, Aug 16
SARL Youth QSO Party	1200Z-1300Z, Aug 15
Feld Hell Sprint	1600Z-1759Z, Aug 15
North American QSO Party, SSB	1800Z, Aug 15 to 0559Z, Aug 16
CVA DX Contest, CW	1800Z, Aug 15 to 2100Z, Aug 16
NJQRP Skeeter Hunt	1700Z-2100Z, Aug 16
ARRL Rookie Roundup, RTTY	1800Z-2359Z, Aug 16
Run for the Bacon QRP Contest	2300Z, Aug 16 to 0100Z, Aug 17
K1USN Slow Speed Test	0000Z-0100Z, Aug 17
ICWC Medium Speed Test	1300Z-1400Z, Aug 17
OK1WC Memorial (MWC)	1630Z-1729Z, Aug 17
RSGB FT4 Contest	1900Z-2100Z, Aug 17
ICWC Medium Speed Test	1900Z-2000Z, Aug 17
Worldwide Sideband Activity Contest	0100Z-0159Z, Aug 18
ICWC Medium Speed Test	0300Z-0400Z, Aug 18
ZL Sprint	0800Z-0829Z (CW), Aug 18 and 0830Z-0859Z (SSB), Aug 18 and 0900Z-0929Z (FT4), Aug 18
Tuesday's Telegraphy Contest	1930Z-2020Z, Aug 18
Phone Weekly Test	0230Z-0300Z, Aug 19
A1Club AWT	1145Z-1300Z, Aug 19
CWops Test (CWT)	1300Z-1400Z, Aug 19
VHF-UHF FT8 Activity Contest	1700Z-2100Z, Aug 19
Mini-Test 40	1700Z-1759Z, Aug 19
Mini-Test 80	1800Z-1859Z, Aug 19
CWops Test (CWT)	1900Z-2000Z, Aug 19
VHF-UHF FT8 Activity Contest-NA	0000Z-0500Z, Aug 20
Walk for the Bacon QRP Contest	0000Z-0100Z, Aug 20 and 0200Z-0300Z, Aug 21
CWops Test (CWT)	0300Z-0400Z, Aug 20
CWops Test (CWT)	0700Z-0800Z, Aug 20
NTC QSO Party	1900Z-2000Z, Aug 20
QRP Fox Hunt	0100Z-0230Z, Aug 21
NCCC FT4 Sprint	0100Z-0130Z, Aug 21
Weekly RTTY Test	0145Z-0215Z, Aug 21
NCCC Sprint	0230Z-0300Z, Aug 21
K1USN Slow Speed Test	2000Z-2100Z, Aug 21
YO DX HF Contest	1200Z, Aug 22 to 1200Z, Aug 23
ARSI VU DX Contest	1200Z, Aug 22 to 1200Z, Aug 23
Hawaii QSO Party	1600Z, Aug 22 to 0200Z, Aug 24
Ohio QSO Party	1600Z, Aug 22 to 0400Z, Aug 23
CVA DX Contest, SSB	1800Z, Aug 22 to 2100Z, Aug 23
SARL HF CW Contest	1400Z-1700Z, Aug 23
K1USN Slow Speed Test	0000Z-0100Z, Aug 24
ICWC Medium Speed Test	1300Z-1400Z, Aug 24
OK1WC Memorial (MWC)	1630Z-1729Z, Aug 24
ICWC Medium Speed Test	1900Z-2000Z, Aug 24
Worldwide Sideband Activity Contest	0100Z-0159Z, Aug 25
ICWC Medium Speed Test	0300Z-0400Z, Aug 25
ZL Sprint	0800Z-0829Z (CW), Aug 25 and 0830Z-0859Z (SSB), Aug 25 and 0900Z-0929Z (FT4), Aug 25
Tuesday's Telegraphy Contest	1930Z-2020Z, Aug 25
SKCC Sprint	0000Z-0200Z, Aug 26
Phone Weekly Test	0230Z-0300Z, Aug 26
A1Club AWT	1145Z-1300Z, Aug 26
CWops Test (CWT)	1300Z-1400Z, Aug 26
Mini-Test 40	1700Z-1759Z, Aug 26
Mini-Test 80	1800Z-1859Z, Aug 26
CWops Test (CWT)	1900Z-2000Z, Aug 26
CWops Test (CWT)	0300Z-0400Z, Aug 27
CWops Test (CWT)	0700Z-0800Z, Aug 27
NCCC FT4 Sprint	0100Z-0130Z, Aug 28
Weekly RTTY Test	0145Z-0215Z, Aug 28
NCCC Sprint	0230Z-0300Z, Aug 28
K1USN Slow Speed Test	2000Z-2100Z, Aug 28
SCRY/RTTYOps WW DX RTTY Contest	2200Z, Aug 28 to 1200Z, Aug 29 and 1200Z-2359Z, Aug 30
Feld Hell Sprint	0000Z-2359Z, Aug 29
ALARA Contest	0600Z Aug 30 to 0559Z, Aug 31
U.S. Islands QSO Party	1200Z, Aug 29 to 0300Z, Aug 30
World Wide Digi DX Contest	1200Z, Aug 29 to 1200Z, Aug 30
Kansas QSO Party	1400Z, Aug 29 to 0200Z, Aug 30 and 1400Z-2000Z, Aug 30
K1USN Slow Speed Test	0000Z-0100Z, Aug 31
QCX Challenge	1300Z-1400Z, Aug 31
ICWC Medium Speed Test	1300Z-1400Z, Aug 31
OK1WC Memorial (MWC)	1630Z-1729Z, Aug 31
QCX Challenge	1900Z-2000Z, Aug 31
ICWC Medium Speed Test	1900Z-2000Z, Aug 31

ARRL Field Day 2026
June 27, 2026

Call : NE2R
Operator (s) : NE2R
Station : NE2R

Class : 1D LP
QTH : SNJ
Operating Time (hrs) : 8.0

Summary :

Band	CW Qs	Ph Qs	Dig Qs
80 :	15	0	0
40 :	141	0	0
20 :	69	0	0
15 :	21	0	0
10 :	6	0	0
Total :	252	0	0

Total Score : 1,008

Club : Gloucester County ARC 008

RAC Canada Day Contest 2026
July 1, 2026

Call : NE2R
Operator (s) : NE2R
Station : NE2R

Class : Single Op LP
QTH : SNJ
Operating Time (hrs) : 2.0
Location : USA

Summary :

Band	CW Qs	Ph Qs	CW Mults	Ph Mults
40 :	16	0	0	0
20 :	8	0	0	0
15 :	3	0	0	0
Total :	27	0	0	0

Total Score : 3,190

Club : Frankford Radio Club 009

Here is the breakdown of which registrants for the EFHW Antenna Build were scheduled for which Saturday session.

Those scheduled for Saturday, July 11, 2026 :

- **Troy Clancy AD2LY**
- **Haydn Cotton KC3AMM**
- **Doug Dersch KD2VQA**
- **Harry Eshelman AD2NK**
- **Dean Marzocca N2TNN**
- **Jon Pearce WB2MNF**
- **Mike Resnick N2WOQ**
- **Terry Rossi N2LQH**
- **Courtney Smith KD2SPJ**
- **Russ Stevenson KE2HVQ**
- **Mike Thompson KG4JYA**
- **Jason Watkins KD2VVJ**

Those scheduled for Saturday, July 18,2026 :

- **Rick Bleda KC2SGR**
- **Josh Boylan KE2FSC**
- **Kerri Caguiat K3CAG**
- **Kevin Durrenberger AD2NB**
- **Harold Garron AC2BK**
- **Anish James KE2DRI**
- **Craig Metzger KE2GNU**
- **Aimée Ortiz K9RVT**
- **Mike Pentimall KC3VTF**
- **Cara Procaccio**
- **Jake Scholz KC2QYT**
- **Charles Shorter W2JOY**

The four registrants who ordered kits, but do not plan to attend a scheduled build session can pick up their kits at any time that the Clubhouse is open. Those registrants include :

- **Diane Amico W2WHD**
- **Chris Angelastro KE2DST**
- **Ron Block NR2B**
- **John O'Connell K2QA**

A big thank you to all Club members who participated in the EFHW Antenna Building classes and all of the previous building classes. If you are interested in building any of the many previous projects that we have had at our Clubhouse, go to : https://registration.w2mmd.org/wpregp/build-project-interest-survey

IARU HF World Championship 2026
July 11, 2026

Call : AB2E
Operator (s) : AB2E
Station : AB2E

Class : SOAB(A)CW HP
QTH : SNJ
Operating Time (hrs) : 7.5
Location : USA

Summary :

Band	CW Qs	Ph Qs	Zones	HQ Mults
160 :	2	0	1	1
80 :	23	0	6	13
40 :	125	0	15	23
20 :	211	0	20	26
15 :	91	0	15	21
10 :	8	0	4	3
Total :	460	0	61	87

Total Score : 251,748

Club : Frankford Radio Club 010

Comments :
Rig : FTDX-9000D/SPE1.5K-Taurus
Antennas :
160 inverted L over 100ft tree
80m dipole @ 95ft
40m dipole @ 95ft
10/15/20m Force 12 C31XR @ 55ft

Worked most of the WRTC ops on 20/40. Only had 7.5 hours op time. Condx not bad for the times that I was on. OM Power 2000A+ failed for the first time in 5yrs (waiting to hear back from Tibi, but most likely a failed tube). Amp is actually 8yrs old on original tube, so can't complain.

SPE 1.5K-Taurus works like a champ.

73 Darrell AB2E

IARU HF World Championship 2026
July 11, 2026

Call : K3TS
Operator (s) : K3TS
Station : K3TS

Class : SOAB(A)MIXED HP
QTH : WPA
Operating Time (hrs) : 10
Location : USA

Summary :

Band	CW Qs	Ph Qs	Zones	HQ Mults
160 :	5	0	3	0
80 :	30	0	10	15
40 :	42	10	17	21
20 :	165	20	22	27
15 :	125	15	15	27
Total :	367	45	67	90

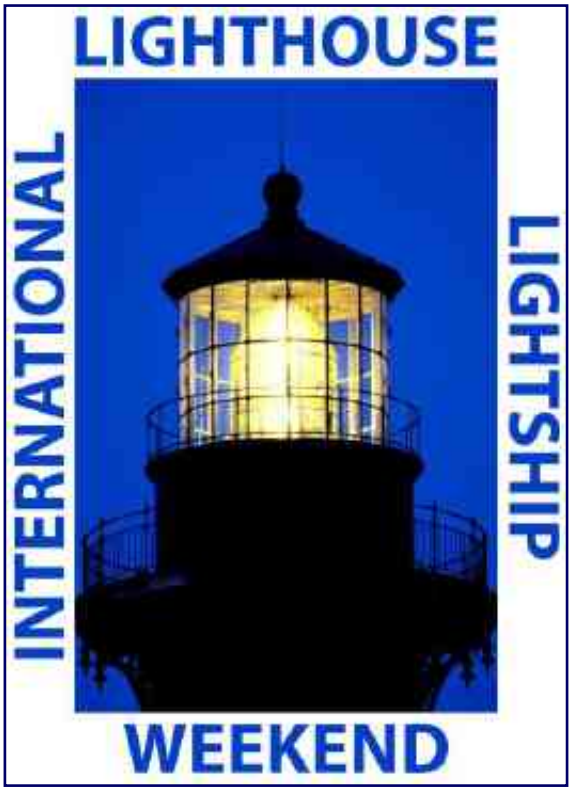
Total Score : 237,384

Club : Frankford Radio Club 011

Comments :
Not a serious effort, 100% S&P, mostly just to keep the rust off. Came within 5k of last year, but put in an hour or two less. Band conditions not great, but it is summertime, after all. WRTC stations were weak most of the time, but workable at the band's peak. Good participation, so plenty of stations to work. Congrats to all the WRTC participants, and to the excellent volunteers in the UK who made it all happen. 73 for now, de K3TS.

August 15 - 16, 2026

https://illw.net



Electronic Tool Tip #20 - DIP IC Pin Straightener

By Chris Prioli AD2CS - chris@ad2cs.com - www.ad2cs.com

Whenever the electronics technician - or hobbyist - has the need to insert a dual inline package (DIP) integrated circuit (IC) into a printed circuit board (PCB) or into a DIP socket, there is a concurrent need to ensure that the IC pins are all straight and aligned in a pair of clean and straight rows. Ordinarily, new IC's will have the two rows of pins splayed apart, with the rows at some angle to each other instead of being clearly and cleanly parallel.

Also, during handling and/or shipping, some of the pins may have become bent out of line with the others. While it is possible to straighten and align the pins by pressing the IC against the tabletop, it is not always so easy to get the rows properly parallel and spaced to fit the PCB or DIP socket holes. Fortunately, a very inexpensive tool is available to make this task a simple one.

The tool to which I am referring is the **DIP IC Pin Straightener** from **Jameco Electronics**. This tool is a member of the **Jameco BenchPro** product line. It is incredibly simple, but it is meant to work for both the 0.300" pin row pitch and the 0.600" pin row pitch IC's.

The tool consists of three molded plastic pieces that are assembled with pins at each end and with springs on those pins between each of the plastic bodies. The width of the center section is 0.300" on top of the tool, and is 0.600" on the bottom of the tool. The user simply drops the IC into the tool on the proper side, based on the pin row pitch, and then squeezes the three sections together against the spring pressure, which causes the pins to become aligned and the rows to become squared to each other.

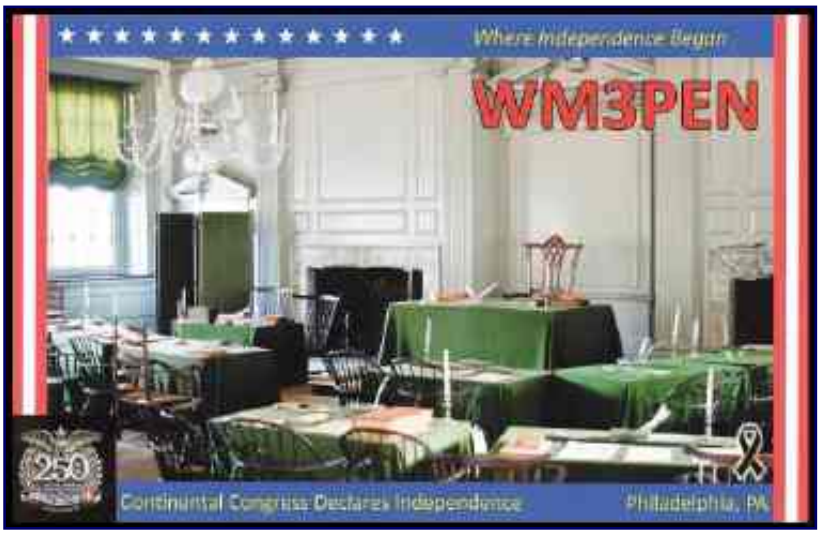
This tool is quite compact, measuring a mere 3.2" long by 1.4" wide, and is about 0.450" thick. It is nothing short of ingenious in its design and simplicity, but most importantly, it works! It is a time saver as well as being a part saver, as it prevents the accidental over-bending of the pins that will sometimes happen when pressing the pin rows against the work surface to straighten them. It will handle IC's with up to 42 pins.

As already indicated, this item is available online from **Jameco Electronics (www.jameco.com)** for a standard price of $8.95 (USD) plus tax and shipping. However, the buyer should be aware that Jameco has a $20 (USD) minimum purchase threshold, below which there is a surcharge on small orders.

If you do not happen to need anything else from Jameco at the time when you want to order this tool, it is good to know that the tool is also available online from Amazon, at a price of $9.36 (USD) plus shipping if you are not an Amazon Prime member. Of course, the government has to get its share, so tax will also be applied. Point your browser to **https://www.amazon.com/Jameco-BenchPro-Straightener-0-300-0-600/dp/B0CQMRLKR7** if you want to investigate this item there for yourself.

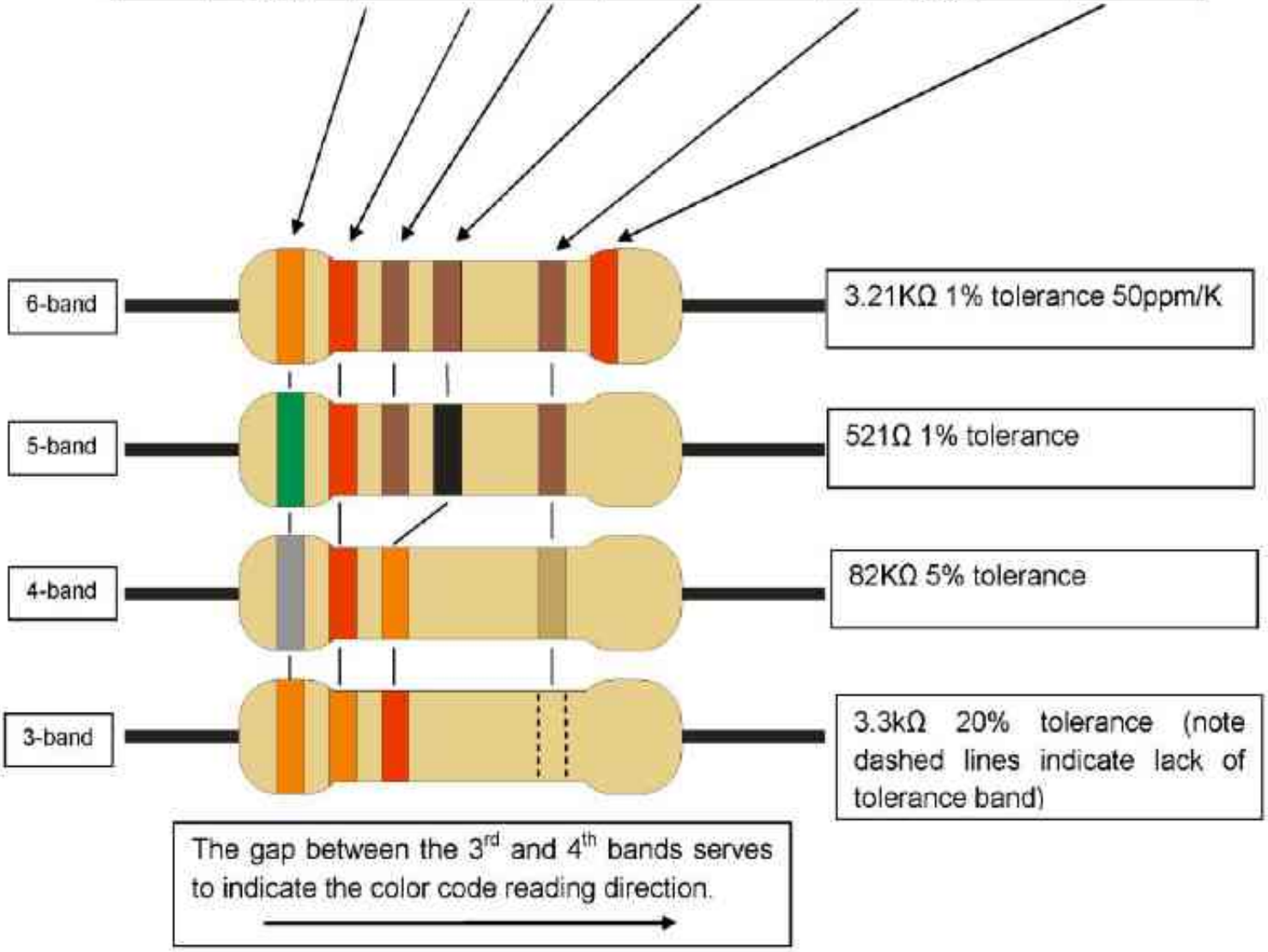
Current Website Updates : Go to this page to find out the latest changes & updates on our W2MMD Website
https://gloucestercountyarc.weebly.com/current-website-updates.html

QSL cards received by Mary Delemarre W2TDS
Two from the 13 Colonies Contest and one from the World Cup Special Event
Looks like Mary is finally getting a handle on this HF stuff!



Resistor Color Code Implementation

Color	1st Digit	2nd Digit	3rd Digit	Multiplier	Tolerance %	Temp Coeff ppm/K
Black	0	0	0	X1		250 (U)
Brown	1	1	1	X10	1 (F)	100 (S)
Red	2	2	2	X100	2 (G)	50 (R)
Orange	3	3	3	X1K		15 (P)
Yellow	4	4	4	X10K		25 (Q)
Green	5	5	5	X100K	0.5 (D)	20 (Z)
Blue	6	6	6	X1M	0.25 (C)	10 (Z)
Violet	7	7	7	X10M	0.1 (B)	5 (M)
Grey	8	8	8	X100M	0.05 (A)	1 (K)
White	9	9	9	X1G		
Gold	3rd digit is for 5 and 6 band resistors only		0.1	X0.1	5 (J)	
Silver			0.01	X0.01	10 (K)	
Blank					20 (M)	


6-band
3.21KΩ 1% tolerance 50ppm/K
5-band
521Ω 1% tolerance
4-band
82KΩ 5% tolerance
3-band
3.3kΩ 20% tolerance (note dashed lines indicate lack of tolerance band)
The gap between the 3rd and 4th bands serves to indicate the color code reading direction.

Uniontown Amateur Radio Club

76th Annual Gabfest

Saturday, August 8, 2026

The Uniontown Amateur Radio Club – W3PIE will conduct our
76th Annual GABFEST
Saturday, August 8th, 2026!

The gates open around 8:00 AM with vendors welcome at any time prior to 8:00 AM! Please check our web site www.w3pie.org for updates.

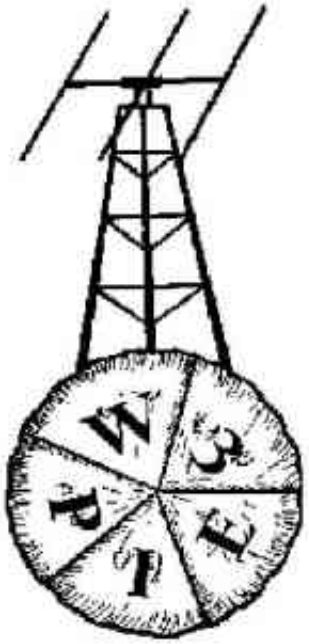
The GABFEST will be held at the Radio Club Grounds located on Old Pittsburgh Road just off Northgate Highway/RT 43 Mon Fayette Expressway-– near RT 51 and US RT 119 in Uniontown, PA

Talk in will be provided on 147.045 + (Full Time PL 131.8) Just call for W3PIE Gabfest Talk-In.
This talk-in is provided for directions and Gabfest information. No check in is needed if you know how to get here!

As always, free parking is available! Refreshments available! Free Swap-N-Shop Set-up with registration! Check our web site prior to the event for Updates.

Same Location, Same Free Parking, Same Great Food, New Presentations, More Fun – and always a good time and conversation with area hams

Hamfest Prizes for our event
Main prize- Icom IC7300 (Donated by DX Engineering)
TO BE DETERMINED



Address of UARC-W3PIE is 433 Old Pittsburgh Rd, Uniontown, PA

Contact Tony Alviar 724-430-1277 (M-F 8-4) or George Syner 724-439-1554 (leave message if no answer) if more information is needed. Also, Information is available anytime on 147.045 + (Full Time PL 131.8). Additionally- email officers@w3pie.org for information

Look forward to seeing everyone this year!

2026 Club Committees

Standing Committees	Committee Chairs
Budget	John O'Connell K2QA
Constitution & By-Laws	Ron Block NR2B
Education	Chris Prioli AD2CS
Field Day	Jim Wright N2GXJ
Hamfest	Ron Block NR2B
Health, Welfare, & Silent Keys	Bill Price NJ2S
Hospitality	Jeff Garth WB2ZBN
Membership & Membership Badges	Chris Prioli AD2CS
Publicity	Mike Resnick N2WOQ
Repeaters	John Zaruba Jr K2ZA
Volunteer Examiner Liaison	Chris Prioli AD2CS
W2MMD Clubhouse Site	Al Arrison KB2AYU

Activity Committees	Committee Chairs
Awards & Certificates	GCARC Board of Directors
Club Photographer	Phil Nunzio WA3RGY
Club Publications & Historian	Jeff Garth WB2ZBN
Contests	Tony Starr K3TS
GCARC Foxhunts	Jim Wright N2GXJ
GCARC Picnic	Frank Romeo N3PUU
GC-ARES Emergency Coordinator	Bob Keogh KD2NEC
Holiday Dinner Party	Beth Barnish KB2EAL
Membership Roster Database	Jeff Garth WB2ZBN
Nominations	Jon Pearce WB2MNF
Programs : General Membership Meetings	Ron Block NR2B
Radio Nets	Steve Farney W2SEF & Jeff Garth WB2ZBN
Technical (Tech Saturday, TechNets)	Jon Pearce WB2MNF
W2MMD License Trustee	Darrell Neron AB2E
W2MMD Special Event Station	Mark Gottlieb KK2L

GCARC <*at*> Mailman <*dot*> QTH <*dot*> Net e-mail reflector guidelines

1. **No attachments** (e.g. pictures, files) are allowed on the reflector.
2. If you have Club-related pictures that you would like to share, you can send them to the webmaster, he will put them on the website and will send out a general e-mail to all the members.
3. Otherwise, the pictures will have to be sent to the members' addresses.
4. URLs/Hyperlinks are acceptable on the reflector.
5. Do not send any messages with e-mail addresses in the **BCC** (**Blind Carbon Copy**) field. The message will be rejected. Use only the **To:** or **CC:** fields.
6. Members are subscribed to the reflector using the member's e-mail address from the roster database. You must use that address when sending an e-mail via the reflector.
7. If you use another address on the reflector, the message will get rejected or "*bounced*", because the reflector does not recognize that address. Whenever a message sent to reflector is rejected or *"bounced"* for various reasons, the administrator has to log-in to the Mailman.QTH website and approve the message.

The W2MMD Repeaters

2 Meter Repeater
Output : 147.180 MHz
Input : 147.780 MHz
Offset : +600 kHz - PL : 131.8 Hz
(Conventional FM plus C4FM Capability)
EchoLink : W2MMD-R

70 cm Repeater
Output : 442.100 MHz
Input : 447.100 MHz
Offset : +5 MHz - PL : 131.8 Hz
(Conventional FM plus C4FM Capability)

The above repeaters are both
located in Pitman, NJ
GPS : 39.728481°, -75.131088°

1.25 Meter Repeater
Output : 224.660 MHz
Input : 223.060 MHz
Offset : -1.6 MHz - PL : 131.8 Hz
Location : Sewell, NJ
GPS : 39.746738°, -75.077094°

SKYWARN™ Net
Sunday @ 1930 : 147.180 MHz Repeater

Gloucester County ARES Net
Sunday @ 2000 : 147.180 MHz Repeater

GCARC TechNet ZOOM Forum
Available Every Monday @ 1930 Hours
Join ZOOM Meeting Link :
https://tinyurl.com/4hrhuabb

Tuesday AfterNoon 2M Net @ 1200 Hours

Monday & Thursday Night 40M Net
1930 Hours : 7.172 MHz (+/- 10 kHz)

Thursday 2M Net @ 2000 Hours

All 2 Meter Nets Are Also On EchoLink :
W2MMD-R

Meeting Calendar

General Membership Meeting
Wednesday, August 05, 2026
1900 Hours
Pfeiffer Community Center
Simulcast Live on ZOOM
Meeting ID : 982 4039 1944
Passcode : 091084
Join ZOOM Meeting Link :
https://bit.ly/4s67geS

Board of Directors Meeting
Wednesday, August 19, 2026
1900 Hours
W2MMD Clubhouse

"Ask not what your Club can do for you,
Ask what you can do for your Club"
- KA2OSV

"There's More To Ham Radio Than
You Can Possibly Do!"
- K3TS

*** Badges ***

Need a new or replacement badge
Contact "*The Badge Man*"

Chris Prioli AD2CS
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Question Pool Answers : E6C01:A; E6C02:B; E6C03:A; E6C04:C; E6C05:D; E6C06:C; E6C07:B; E6C08:B; E6C09:B; E6C10:D; E6C11:C